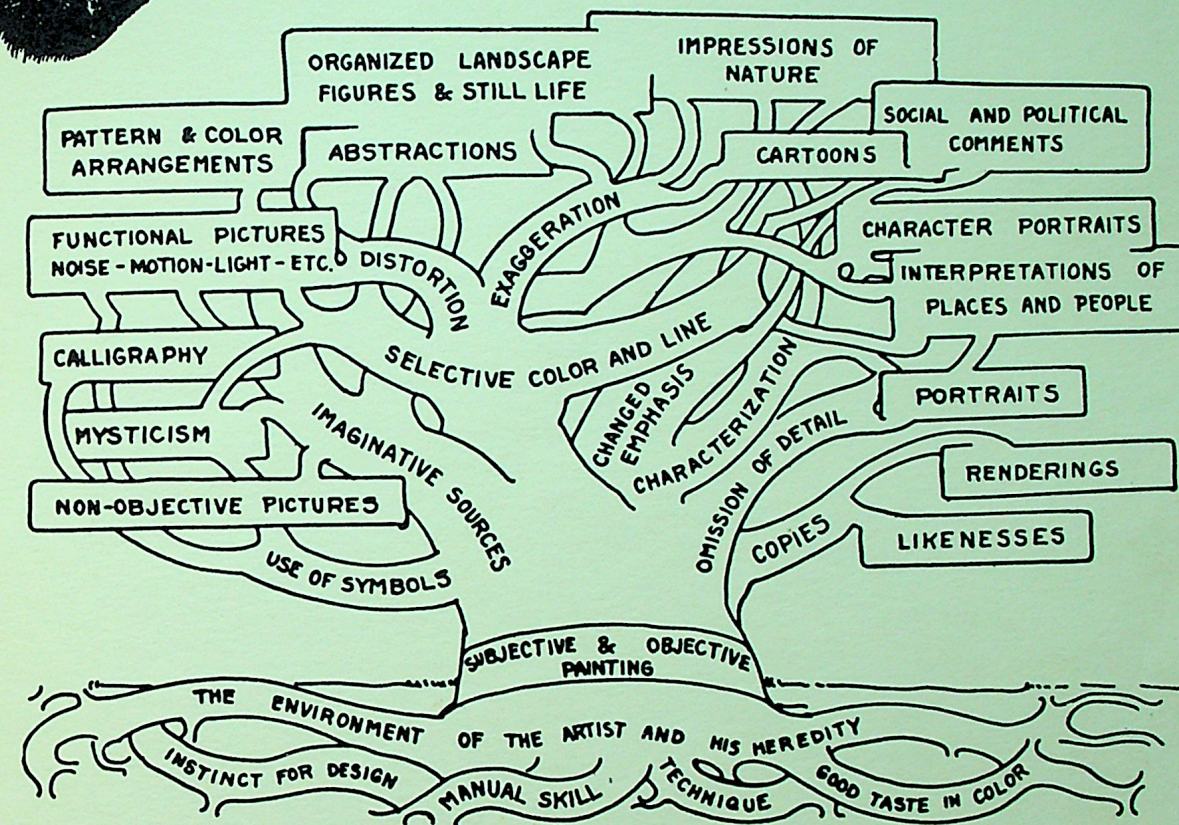


COMPOSITIONS

NAME CABLE 1963

MADE IN U.S.A.

16. Minut.				I. GRAD.				17. Minut.			
S.	Log. Sin.	L. Col.	Log. Tang.	Log. Cot.	Log. Sin.	L. Col.	Log. Tang.	Log. Cot.	"		"
0	344 5043 325	938 624	344 6104 701	655 3895 299	350 1805 283	910 507	350 2894 776	649 7105 224	60		60
1	344 5995 466	938 158	344 7057 308	655 2942 692	350 2745 055	910 036	350 3835 019	649 6164 981	59		59
2	344 6947 398	937 693	344 8009 705	655 1990 295	350 3684 625	909 564	350 4775 061	649 5224 939	58		58
3	344 7899 121	937 227	344 8961 894	655 1038 106	350 4623 991	909 092	350 5714 899	649 4285 101	57		57
4	344 8850 636	936 761	344 9913 375	655 0086 125	350 5563 153	908 620	350 6654 533	649 3345 467	56		56
5	344 9801 942	936 295	345 0865 647	654 9134 353	350 6502 112	908 148	350 7593 964	649 2406 036	55		55
6	345 0753 039	935 829	345 1817 210	654 8182 790	350 7440 868	907 676	350 8533 192	649 1466 808	54		54
7	345 1703 928	935 362	345 2768 566	654 7231 434	350 8379 422	907 204	350 9472 218	649 0527 782	53		53
8	345 2654 609	934 896	345 3719 713	654 6280 287	350 9317 772	906 731	351 0411 041	648 9588 959	52		52
9	345 3605 082	934 430	345 4670 652	654 5329 348	351 0255 920	906 259	351 1349 661	648 8650 339	51		51
10	345 4555 347	933 963	345 5621 384	654 4378 616	351 1193 864	905 786	351 2288 078	648 7711 922	50		50
11	345 5505 404	933 496	345 6571 908	654 3428 092	351 2131 607	905 313	351 3226 294	648 6773 706	49		49
12	345 6455 252	933 030	345 7522 222	654 2477 778	351 3069 146	904 840	351 4164 306	648 5835 694	48		48
13	345 7404 893	932 563	345 8472 330	654 1527 670	351 4006 484	904 367	351 5102 117	648 4897 883	47		47
14	345 8354 326	932 096	345 9422 230	654 0577 770	351 4943 618	903 894	351 6039 724	648 3960 276	46		46
15	345 9303 553	931 629	346 0371 924	653 9628 076	351 5880 551	903 421	351 6977 130	648 3022 870	45		45
16	346 0252 570	931 162	346 1321 408	653 8678 592	351 6817 280	902 948	351 7914 332	648 2085 668	44		44
17	346 1201 381	930 694	346 2270 687	653 7729 313	351 7753 810	902 475	351 8851 335	648 1148 665	43		43
18	346 2149 984	930 227	346 3219 757	653 6780 243	351 8690 136	902 001	351 9788 135	648 0211 865	42		42
19	346 3098 381	929 760	346 4168 621	653 5831 379	351 9626 262	901 528	352 0724 734	647 9275 266	41		41
20	346 4046 569	929 292	346 5117 277	653 4882 723	352 0562 182	901 054	352 1661 128	647 8338 872	40		40
21	346 4994 550	928 824	346 6065 726	653 3934 274	352 1497 903	900 580	352 2597 323	647 7402 677	39		39
22	346 5942 325	928 357	346 7013 968	653 2986 032	352 2433 423	900 106	352 3533 317	647 6466 683	38		38
23	346 6889 893	927 889	346 7962 004	653 2037 996	352 3368 740	899 652	352 4469 108	647 5530 892	37		37
24	346 7837 255	927 421	346 8909 834	653 1090 166	352 4303 855	899 158	352 5404 697	647 4595 303	36		36
25	346 8784 409	926 953	346 9857 456	653 0142 544	352 5238 770	898 684	352 6340 086	647 3659 914	35		35
26	346 9731 357	926 485	347 0804 872	652 9195 128	352 6173 483	898 210	352 7275 273	647 2724 727	34		34
27	347 0678 098	926 016	347 1752 082	652 8247 918	352 7107 996	897 736	352 8210 260	647 1789 740	33		33
28	347 1624 633	925 548	347 2699 085	652 7300 915	352 8042 307	897 261	352 9145 046	647 0854 954	32		32
29	347 2570 961	925 080	347 3645 881	652 6354 119	352 8976 416	896 787	353 0079 629	646 9920 371	31		31
30	347 3517 084	924 611	347 4592 473	652 5407 527	352 9910 325	896 312	353 1014 013	646 8985 987	30		30
31	347 4463 000	924 142	347 5538 858	652 4461 142	353 0844 032	895 837	353 1948 195	646 8051 805	29		29
32	347 5408 710	923 674	347 6485 036	652 3514 964	353 1777 540	895 362	353 2882 178	646 7117 822	28		28
33	347 6354 214	923 205	347 7431 009	652 2568 991	353 2710 848	894 887	353 3815 961	646 6184 039	27		27
34	347 7299 512	922 736	347 8376 776	652 1623 224	353 3643 953	894 412	353 4749 541	646 5250 459	26		26
35	347 8244 605	922 267	347 9322 338	652 0677 662	353 4576 856	893 937	353 5682 919	646 4317 081	25		25
36	347 9189 491	921 798	348 0267 693	651 9732 307	353 5509 563	893 461	353 6616 102	646 3383 898	24		24
37	348 0134 172	921 328	348 1212 844	651 8787 156	353 6442 069	892 986	353 7549 083	646 2450 917	23		23
38	348 1078 648	920 859	348 2157 789	651 7842 211	353 7374 372	892 510	353 8481 862	646 1518 138	22		22
39	348 2022 918	920 390	348 3102 528	651 6897 472	353 8306 475	892 035	353 9414 440	646 0585 560	21		21
40	348 2966 982	919 920	348 4047 062	651 5952 938	353 9238 377	891 559	354 0346 818	645 9653 182	20		20
41	348 3910 841	919 450	348 4991 391	651 5008 609	354 0170 082	891 083	354 1278 999	645 8721 001	19		19
42	348 4854 496	918 981	348 5935 515	651 4064 485	354 1101 588	890 607	354 2210 981	645 7789 019	18		18
43	348 5797 945	918 511	348 6879 434	651 3120 566	354 2032 892	890 131	354 3142 761	645 6857 239	17		17
44	348 6741 189	918 041	348 7823 148	651 2176 852	354 2963 996	889 655	354 4074 341	645 5925 659	16		16
45	348 7684 227	917 571	348 8766 656	651 1233 344	354 3894 901	889 179	354 5005 722	645 4994 278	15		15
46	348 8627 061	917 101	348 9709 960	651 0290 040	354 4825 606	888 702	354 5936 904	645 4063 096	14		14
47	348 9569 691	916 630	349 0653 061	650 9346 939	354 5756 111	888 226	354 6867 885	645 3132 115	13		13
48	349 0512 116	916 160	349 1595 956	650 8404 044	354 6686 417	887 749	354 7798 668	645 2201 332	12		12
49	349 1454 335	915 690	349 2538 645	650 7461 355	354 7616 523	887 273	354 8729 250	645 1270 750	11		11
50	349 2396 350	915 219	349 3481 131	650 6518 869	354 8546 429	886 796	354 9659 633	645 0340 367	10		10
51	349 3338 163	914 748	349 4423 415	650 5576 585	354 9476 139	886 319	355 0589 820	644 9410 180	9		9
52	349 4279 770	914 277	349 5365 493	650 4634 507	355 0405 649	885 842	355 1519 807	644 8480 193	8		8
53	349 5221 174	913 806	349 6307 368	650 3692 632	355 1334 960	885 365	355 2449 595	644 7550 405	7		7
54	349 6162 373	913 335	349 7249 038	650 2750 962	355 2264 070	884 888	355 3379 182	644 6620 818	6		6
55	349 7103 368	912 864	349 8190 504	650 1809 496	355 3192 983	884 411	355 4308 572	644 5691 428	5		5
56	349 8044 158	912 393	349 9131 765	650 0868 235	355 4121 696	883 933	355 5237 763	644 4762 237	4		4
57	349 8984 745	911 922	350 0072 823	649 9927 177	355 5050 212	883 456	355 6166 756	644 3833 244	3		3
58	349 9925 128	911 450	350 1013 678	649 8986 322	355 5978 528	882 978	355 7095 550	644 2904 450	2		2
59	350 0865 309	910 979	350 1954 330	649 8045 670	355 6906 647	882 501	355 8024 146	644 1975 854	1		1
60	350 1805 283	910 507	350 2894 776	649 7105 224	355 7834 565	882 023	355 8952 542	644 1047 458	0		0
"	Log. Col.	L. Sin.	Log. Cot.	Log. Tang.	Log. Col.	L. Sin.	Log. Cot.	Log. Tang.	"		"
43. Minut.				88. GRAD.				42. Minut.			



cable

c

c

c c c c c a c a b c a b

et cable 1962/3

c c c c c c e

C
7A5
C115
C.1
1963

334699



The second term of the 1962-63 school year has ended in an avalanche of term papers, projects, finals, and, for the lucky ones, offers of graduate school and jobs. The Cooper Union has simultaneously gained a class of freshmen for the fall, and a class of alumni for the future.

What of those who are now leaving the Cooper Union? What distinguishes them from any similar group of two-hundred-odd individuals? It is true that the Cooper graduate is equipped with an art of engineering education which is not only "equal to the best", but *the best* available anywhere.

But, to quote Alexander King, all this is about as descriptive of our four years at Cooper as saying that the Jungfrau is a tall mountain with snow on the top. It has been a time of expectation, anxieties, hopes and disappointments. It has been a time for self-appraisal, constant soul-searching and growth — of mind, of character, of ideas, of goals. It has been a period in our lives which we can never forget, because we will never be quite the same as when we started.

And if the class of 1963 should follow in the tradition of its predecessors, it and its Alma Mater should remain a source of mutual pride and affection in the years to come.

OFFICERS

Richard F. Humphreys, PRESIDENT
Irving S. Olds, CHAIRMAN OF THE TRUSTEES
Elizabeth J. Carbon, SECRETARY
Sheridan A. Logan, TREASURER

TRUSTEES

Irving S. Olds, CHAIRMAN
Harrison Tweed
Arthur A. Houghton, Jr.
Cleo F. Craig
Daniel Maggin

HEADS OF EDUCATIONAL OFFICES

Walter S. Watson, DIRECTOR OF ADMISSIONS AND REGISTRAR
Mary F. Blade, DIRECTOR OF THE GREEN CAMP
J. Clinton Hollinger, DIRECTOR OF ATHLETICS
Fred H. Graves, LIBRARIAN

HEADS OF ADMINISTRATIVE OFFICES

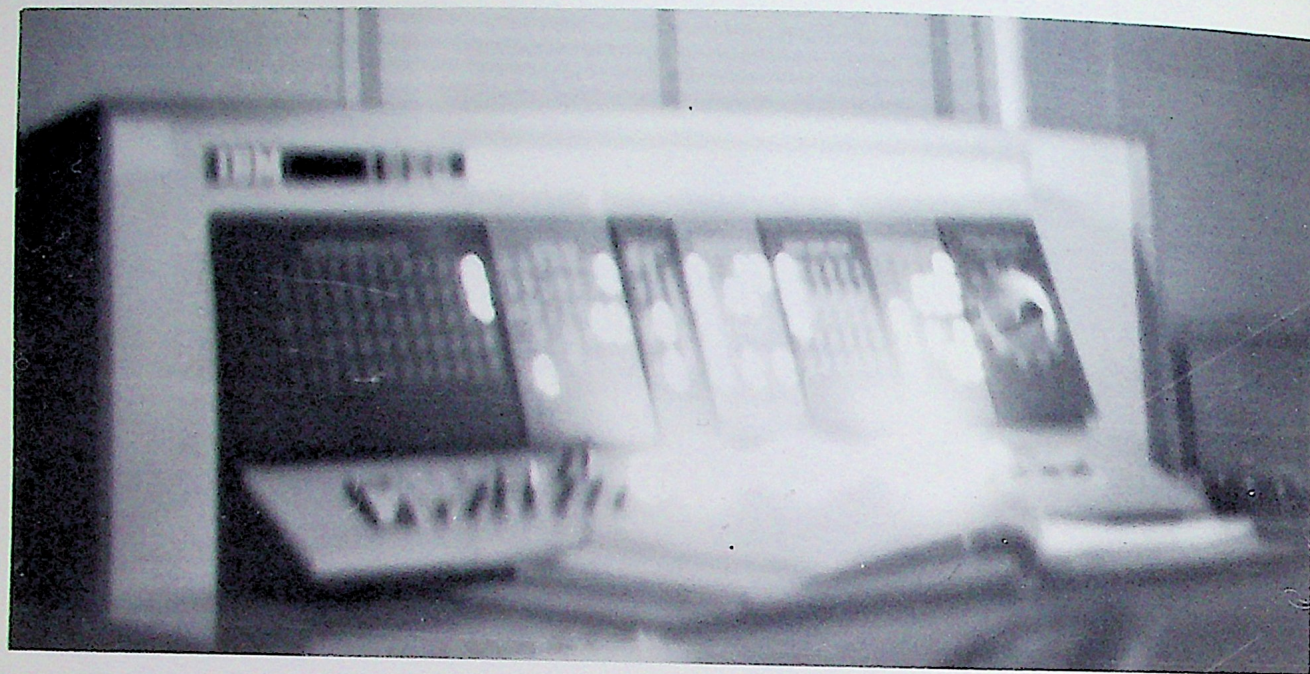
Herbert F. Roemmele, DIRECTOR OF ALUMNI RELATIONS
AND PLACEMENT OFFICER
David D. Thompson, SUPERINTENDENT OF BUILDINGS
Elizabeth J. Carbon, BUSINESS OFFICER
John W. S. Ord, DIRECTOR OF THE DEVELOPMENT FUND
Francis A. Culver, DIRECTOR OF PUBLIC RELATIONS

HEADS OF EDUCATIONAL DEPARTMENTS

Raymond B. Dowden, THE ART SCHOOL
Weller B. Embler, HUMANITIES
Frederick H. Miller, MATHEMATICS
Arthur H. Radasch, CHEMICAL ENGINEERING
Esmond Shaw, ARCHITECTURE
Ernest W. Starr, ELECTRICAL ENGINEERING
William A. Vopat, MECHANICAL ENGINEERING
Felix A. Wallace, CIVIL ENGINEERING,
ENGINEERING SCHOOL EVE. SESSION
Matthew Wysocki, ART SCHOOL EVENING SESSION

HEADS OF EDUCATIONAL DIVISIONS

Arthur H. Radasch, DEAN OF THE SCHOOL
OF ENGINEERING
Richard S. Ball, DEAN OF STUDENTS
Dana P. Vaughn, DEAN OF THE SCHOOL
OF ART AND ARCHITECTURE
Johnson E. Fairchild, DIRECTOR OF ADULT EDUCATION
Calvin S. Hathaway, DIRECTOR OF THE MUSEUM FOR THE ARTS
OF DECORATION



DE-Acc

The Cooper Union for the Advancement of Science and Art

COOPER SQUARE, NEW YORK 3, N. Y. ALGONQUIN 4-6300



SCHOOL OF ENGINEERING
ART SCHOOL
ADULT EDUCATION DIVISION
MUSEUM FOR THE ARTS OF DECORATION

OFFICE OF ADMISSIONS AND REGISTRAR

Mr. Joel D. Reiss
1529 42nd St.
Brooklyn 19, N. Y.

Dear Candidate:

Congratulations! You have been tentatively accepted in our 1959 day session freshman class with a major in Mechanical engineering. If this was your second-choice curriculum, you are also classified as number XXX on the waiting list for your first-choice. (If no number appears above, you did not qualify for the waiting list in your first option.)

We have used the words "tentatively accepted" because you must do several things to complete your admission to The Cooper Union:

1. Accept our offer in writing before May 20, 1959.
2. Present a transcript showing adequate senior year grades and evidence of graduation before July 15, 1959. (See form enclosed.)
3. Appear for registration September 14, 1959 and Orientation Camp September 14-17, 1959.

During the entrance tests, I discussed the fact that some of the material was part of a research study. Enclosed is the final part of that research. Please complete it and return it promptly as directed whether or not you decide to come to Cooper Union.

If you should decide against attendance at The Cooper Union, please notify us in writing as early as feasible so that the next candidate on our waiting list can get his good news promptly.

Very truly yours,

Walter S. Watson

Walter S. Watson
Director of Admissions
and Registrar

WSW:maa
Enc.

LOOKING FORWARD -- CENTENNIAL 1959

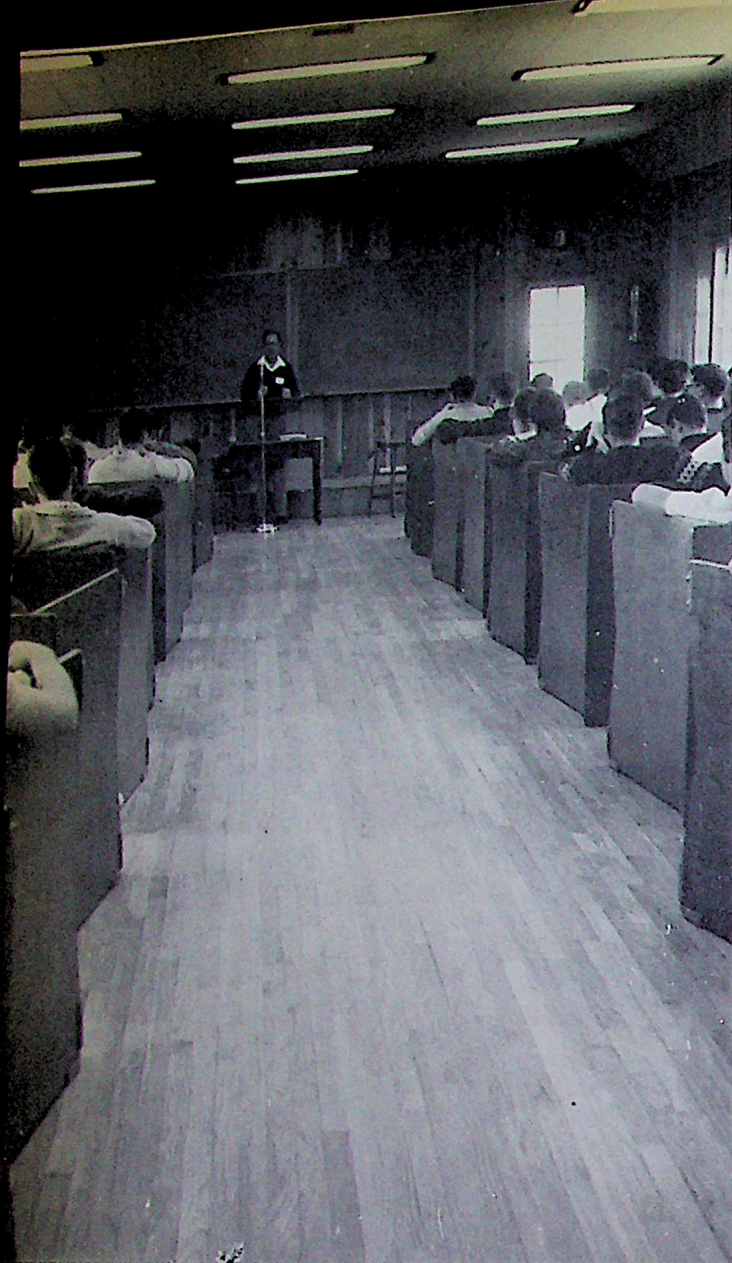
The story of a Cooper Union engineer begins in a typical high school, where an unsuspecting senior picks up the catalog and reads:

"A prospective student will be well advised to seek admission to the School of Engineering only if he has concluded, after careful investigation, that the nature of engineering has strong motivating interests for him."

Having spent the last four years of his life making a careful investigation, our friend Retep Repooc (*something like Serutan*) concludes that he is motivated! He starts a correspondence with a certain Walter S. Watson and soon finds himself in the depths of the Great Hall, regurgitating four years of accumulated wisdom.

Our lucky friend Retep is informed early in May that he has been "tentatively" accepted in the option of his choice, and he then goes about explaining to his relatives and friends that he is *not* quitting school; Cooper Union is not like the Teamsters or the I.L.-G.W.U. — it's a real, honest to goodness college!





In the middle of August, Retep receives detailed instructions about his impending trip to the wilds of Ringwood, New Jersey. At about the same time, he receives a letter from Cooper Union with a "JCH" on the envelope, inviting him to join the Cooper Union Insurance Plan. The coincidence of these two invitations is a little disturbing, but Retep will not let himself be frightened.

His first day as a Cooper student is quite confusing. There are registration cards, lists of names, and huge program sheets. He arrives in Green Camp, looks around and (if he's over 175 lbs) is greeted by an upper-classman: "Did you know that if you wear gloves on your hands, you can't lose a tug-o'-war?"

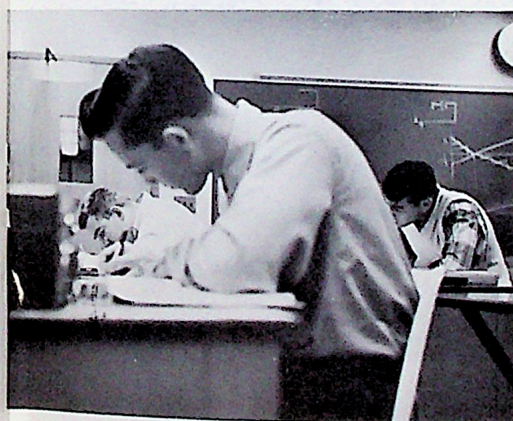
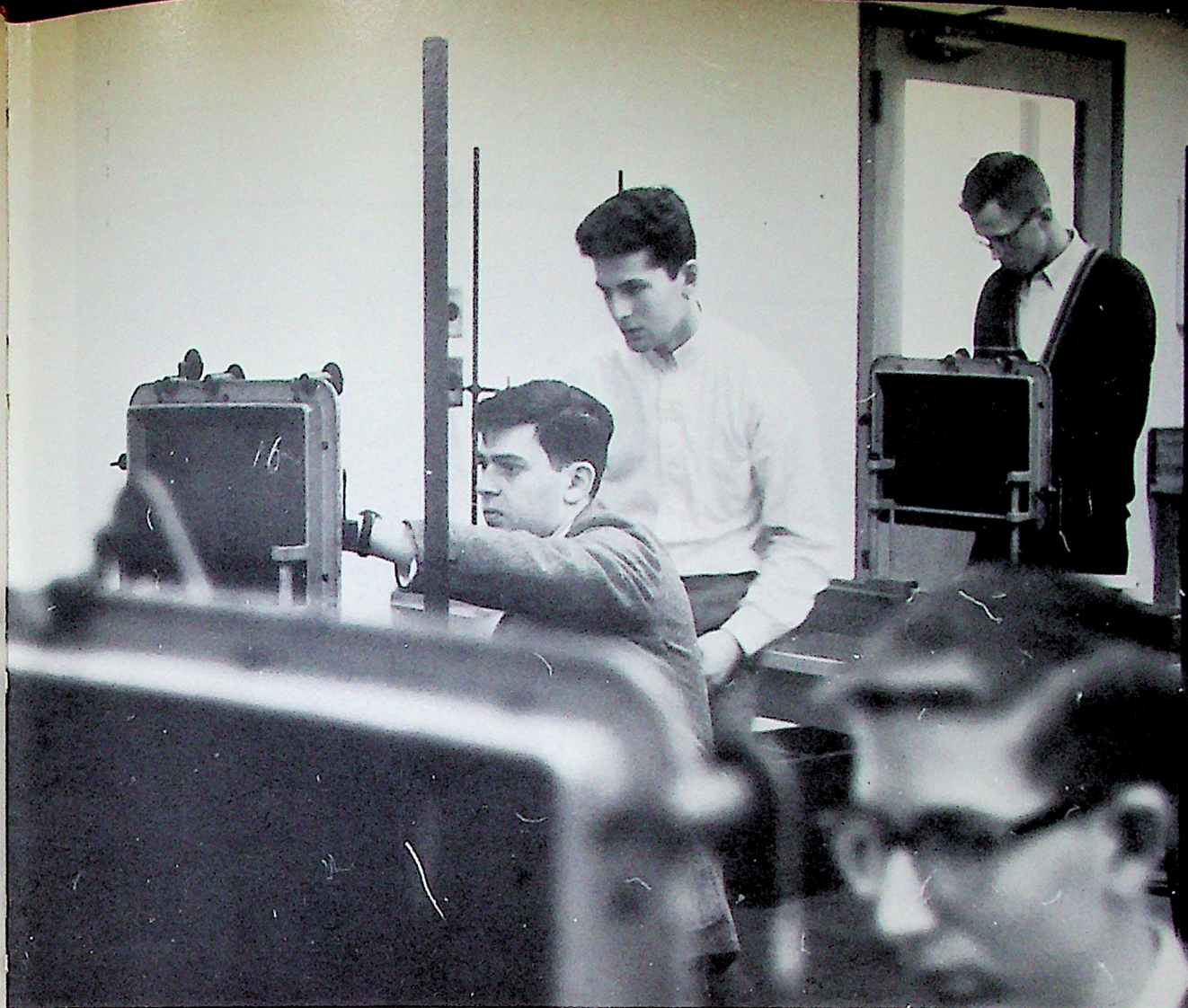
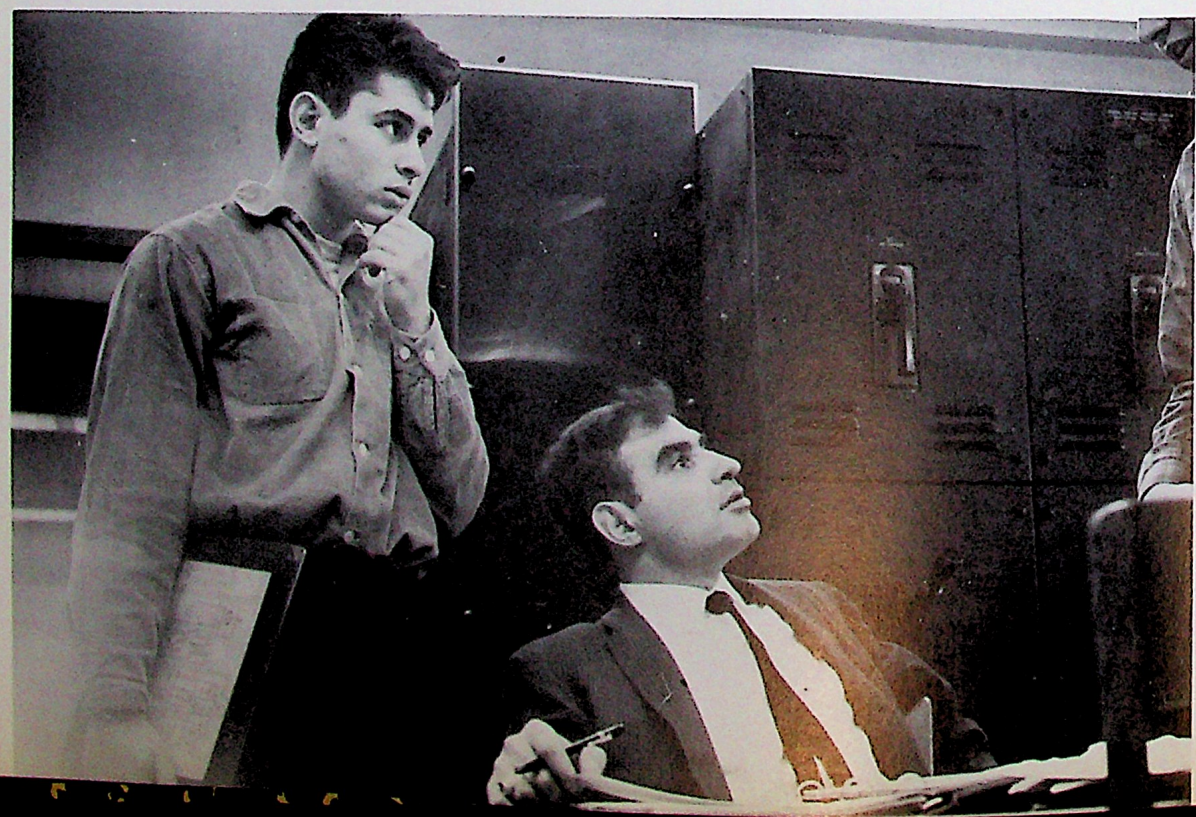
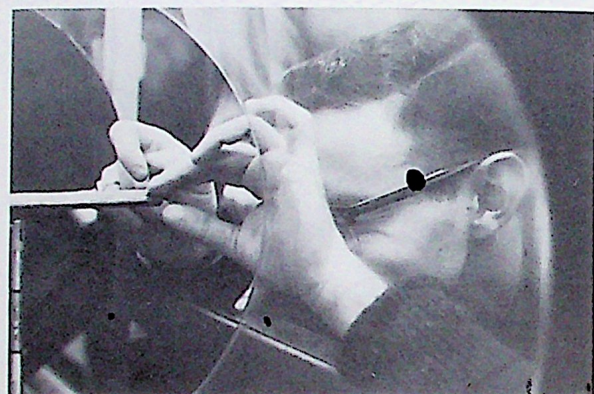
A few minutes later he finds out which direction is east, and he's set. The next days are filled with speeches, athletics, speeches, a mid-night death march to Suicide Ledge, speeches, GCAC, JAC, AP, AA, ESSC, IFL, XYZ, speeches, blue lights covered by orange juice cans, the Manor House ("Where's the latrine?"), questions, a skit, and more speeches. When our friend Retep departs, he is a Cooper man. Somewhere along the line, a water hose has reminded him that he's a freshman, but that makes no difference. He can sing the *Alma Mater* and *K-K-K-Katy* and he's ready for nothing — errr, I mean, for *anything*.

The first year is full of surprises for our Cooper student, and he soon finds out that "An Engineer is a Forlorn Soul." He has a new song now that goes something like this:

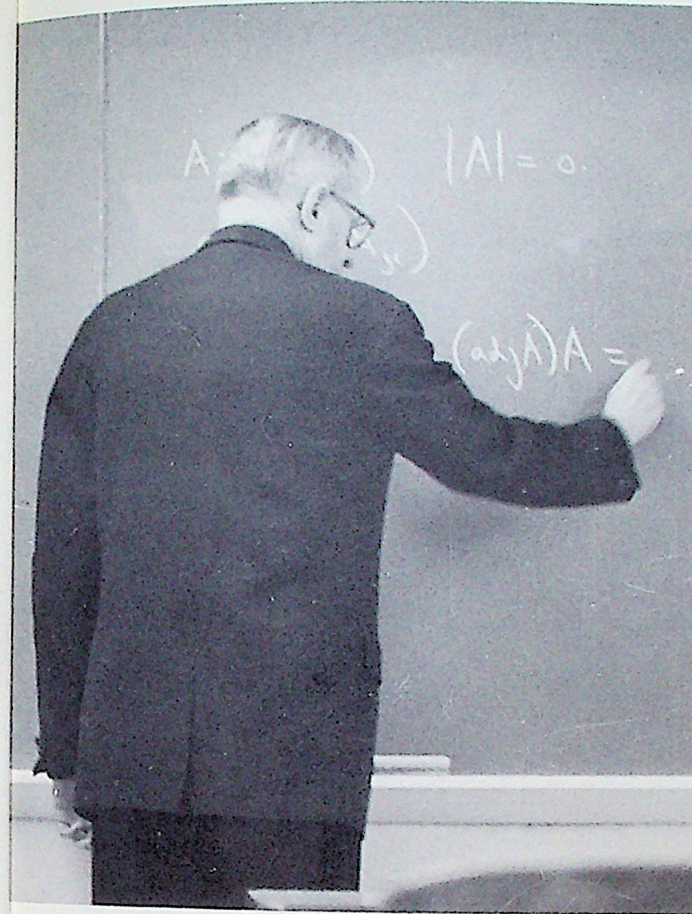
*My eyes are red and my cheeks are pale,
I'm afraid to step on the bathroom scale,
I sleep only on the way to school,
And hate the sight of any K&E slide rule.*

There are PFI's, Chemistry lectures, C-through rulers, intramurals, and elevators with electric eyes. Our friend starts going to fraternity smokers, where he is told that the paddles are painted on the wall, and "we can get you a girl from any borough and Long Island." Retep soon makes a choice, and is either wearing a bowtie or beanie or has decided to choose a "mature" pledge policy. Soon the lab reports start, and there are dt's and hyperbolic paraboloids to make life difficult. When June finally comes, our friend has a 2.9 cum, has lost his Schweinburg, and is ready to quit. But the worst is yet to come, and as we well know, he doesn't quit — yet!

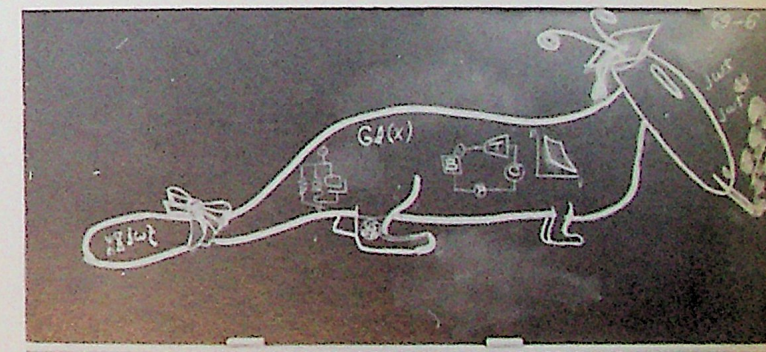


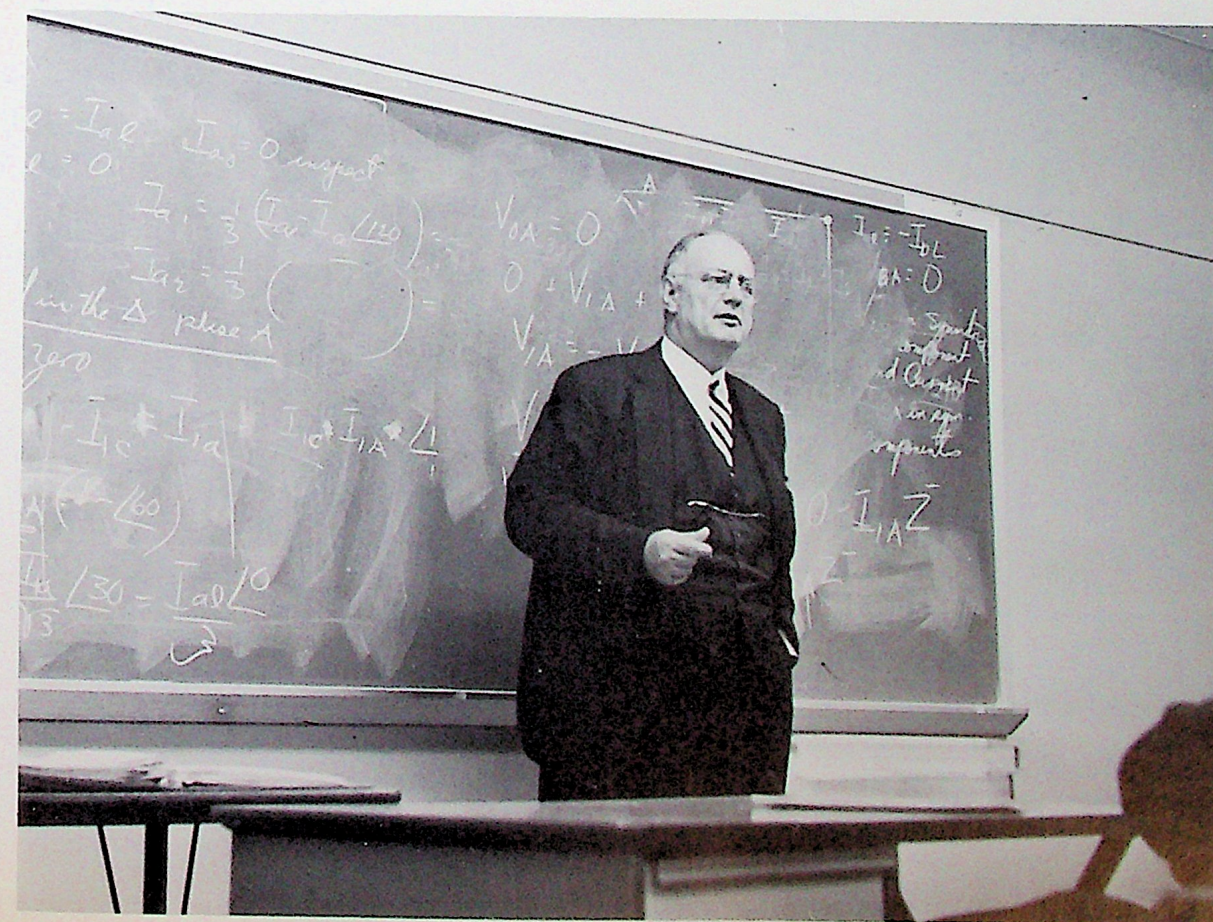
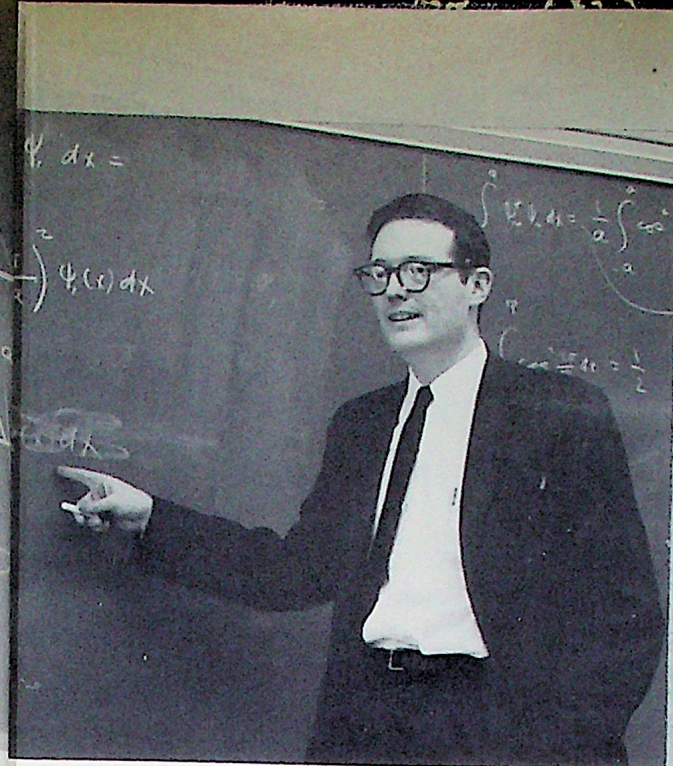
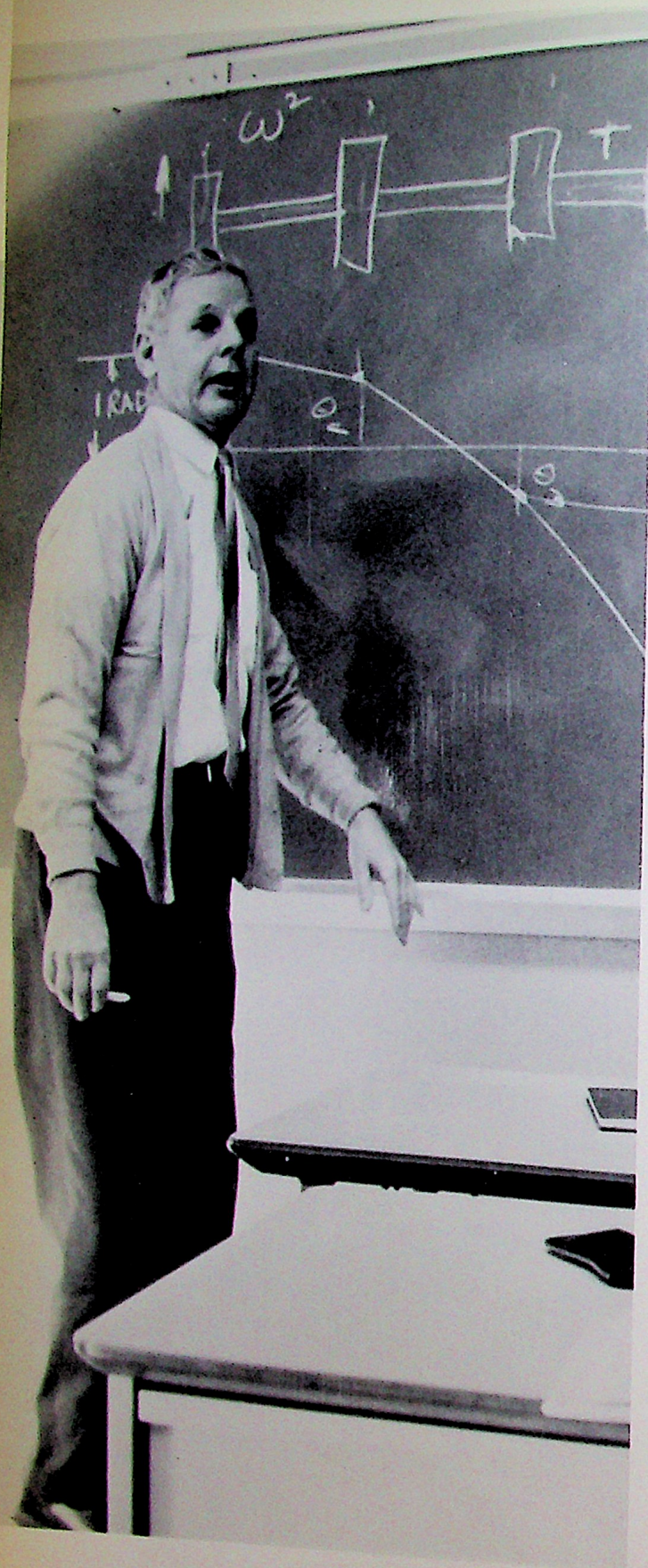


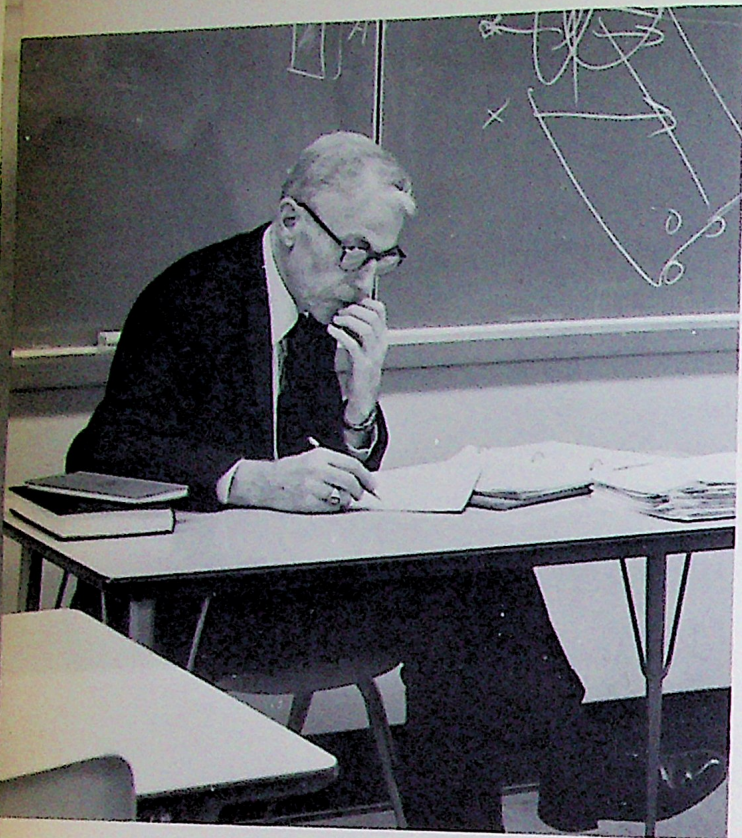
The second year is soon to be known to our friend Retep as "the bomb." He will learn that there are two kinds of light rays — red ones and blue ones — and they all travel from left to right. The EE's find out why the fourth floor is always empty. The ChE's, who are sick of each other by now, take their first Home Economics Lab ("Okay, Bridbord, pick me a good number for the chromium!") The CE's are found counting paddy wagons by the hour on Third Avenue, and the ME's make enemies by taking the elevator to the second floor. Bowties and beanies are around again, and all of the sadists can be easily spotted — they're the ones with the perpetually shined shoes. Lab reports start getting longer this year, but time per report decreases asymptotically to the time it takes to copy a file. And then there's the one poor fool who hands in the file instead of his copy! Intramurals and camp trips make another round. Our friend Retep now knows what a girl is, and he goes to the Annual Dance ("Why can't you do a twist like that?") Another year ends, and Retep and his friends head for the mountains, summer camps, "permanent" stock jobs, Spring Rock Country Club, or — for a few lucky souls — an engineering job.



The next September is extremely depressing. A survey is made of the class, and everybody feels sorry for the five or six who got mashed by Professor X. Specialization has now begun, and the truth is revealed. The ChE's find out that an engineer is the guy who crawls in the manhole on the side of the distillation tower and scrubs the bubble caps with a toothbrush. The EE's prove that it takes more man-hours to write an IBM program than to solve a problem by hand ("Yes, Professor; I know the problem was due four weeks ago, but some idiot divided by zero, and we can't stop the computer.") The CE's descend into the depths of the basement (the place where the elevator always goes when you're late for a class), and they're never seen again. The ME's meet Armenakas for the first time ("Ah, Mr. See-mone, you are like Adam; you too may flunk out of paradise!") This is the year when the first pangs of professionalism are felt — the laundry bill increases slightly from a few white shirts. Retep is now a man of the world — he applies for summer jobs and goes on "cultural excursions" to Philadelphia.







The final year is "it." Nothing is amusing any more, and our friend Retep must plan for his future. Interviews send his laundry bill soaring and Professor Roemmele becomes a popular guy. This year it's not cums that count — it's jobs and fellowships ("Who's gonna buy us this year, guys — Michigan or Purdue?") Retep is probably engaged now (or something like that) and the future Mrs. Repoc has to figure into the picture. The journey has ended, and is now thrusting its passengers into the cold, cruel world. But don't feel sorry for our friend, Retep. He'll do fine, because "he are an engineer."



(room)	(options)
9:00 - 9:30	Ed. J. J. 4DEE
9:30 - 10:00	Stephen 4DEE
10:00 - 10:30	Barry 4DEE
10:30 - 11:00	Barry 4DEE
11:00 - 11:30	Robert 4DEE
11:30 - 12:00	GERNOT KLAUSE 4DEE

(room)	(options)
1:00 - 1:30	
1:30 - 2:00	
2:00 - 2:30	
2:30 - 3:00	
3:00 - 3:30	
3:30 - 4:00	
4:00 - 4:30	
4:30 - 5:00	
5:00 - 5:30	

NORTH AMERICAN AVIATION - AUTONETICS DIVISION
(company)

Downey, California
(location)

Mr. Jack Prinderville R.R. MALONE
(interviewer)

Monday, February 25, 1963
(date)

(room)	(options)
9:00 - 9:30	Steve Patton 4DEE
9:30 - 10:00	Edward 4DEE
10:00 - 10:30	Barry 4DEE
10:30 - 11:00	Stanley 4DEE
11:00 - 11:30	Jerry 4DEE
11:30 - 12:00	Emile 4DEE

Electrical, Mechanical
(options)
(electronics and precision electro-mechanics)

ONLY GRADUATES FOR
SUMMER EMPLOYMENT.

Jerome Feder - 4DEE

L U N C H

(room)	(options)
1:00 - 1:30	FRED RUPP 4DEE
1:30 - 2:00	JAMES CHAN 4DEE
2:00 - 2:30	SAM FELDMAN 4DEE
2:30 - 3:00	Harry 4DEE
3:00 - 3:30	Barry 4DEE
3:30 - 4:00	Barry 4DEE
4:00 - 4:30	(Roy D. Rosner 3DEE) 4DEE
4:30 - 5:00	Robert J. Storck 4DEE
5:00 - 5:30	Daniel Rubin 4DEE
5:30 - 6:00	And W. Puntz 4DEE
6:00 - 6:30	J. Dean 4DEE

The class which is leaving The Cooper Union this June is the last to have any recollection of life in the Foundation Building. Those who come after will take for granted the conveniences and comforts of the new Engineering Building. They will know nothing of mad dashes across Third Avenue to the Hewitt Building, and will probably *never* find out that there *is* a Hewitt Building. Little will they know about riding in round elevators, eating lunch in the midst of the birdseed of Cooper Square, or poker games in the "pit."

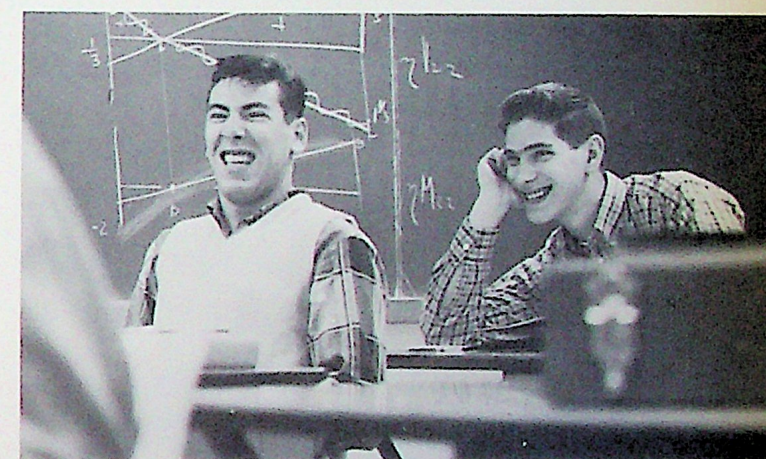


But that's what progress is; an old generation is leaving the Cooper Union School of Engineering, and with them will disappear forever many experiences which are now but memories in the minds of many. An entirely new generation has arrived, and it will soon evolve its own customs and folklore.

For example, innocent freshmen will be asking for many years about the reason for the three stripes on the glass panels at the entrance to the Engineering building, and for many years they will hear about the poor fool who walked through the plate glass panel and came out unharmed except for a torn trouser leg. They will hear about how the bricks once started crumbling on the roof because some brainchild neglected an expansion coefficient. Then there's the welcome that the Engineering School gave to astronaut John Glenn ("Where's the monkey?"), or the time Cooper Union was on "Naked City" ("Pledge, find a pair of wire cutters and get to work!"). These have all become a part of the tradition of the new School of Engineering.



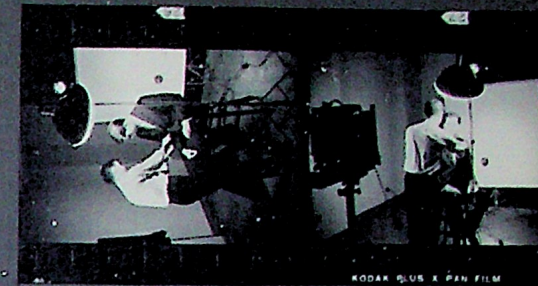
RECTORY MECHANICAL ENGINEERING DEPARTMENT		
N.A.	E	ROOM
DEPT. OFFICE - MRS. E. CARUSO		253
PROF. BLEED		265
PROF. LADLEASS	ID	263
PROF. CRISLE		264
MR. WHIP		261
PROF. KLEANKUT	AASTOUGNUS	259
PROF. LOFORIM		257
PROF. PIZZ		262
MR. BILAS - DEPT. HEAD		255
PROF. VOPAT - JANITOR		24
M.R. CARTER - MORTICIANS ASST		24
OCC. SHT. OFF		256
NACA	N. DN	



Graduation is the time when it occurs to us that it doesn't feel as if we've learned four year's worth of engineering. We wonder whether we've gotten anything out of all the hours of cramming and fudging. Here is where the beauty of it all becomes obvious. There is something more subtle about the process called a "Cooper education" than most of us realize. We must judge our success not from the total number of facts we've been able to regurgitate on the GRE's, but on the total person we've become.

Our creativity must be challenged, and emphasis must be placed on training well-rounded, sensitive, expressive professional men. Cooper graduates must be ready to go out into the engineering profession and bring credit to their alma mater as well as themselves.

This must be the goal of our four years at Cooper. The School of Engineering must be able to produce an engineer, as well as an engineering education, that is "equal to the best."





Harvey I. Abelson ME
1026 Beach 12th St.,
Far Rockaway 91, N. Y.
Alpha Phi Omega, ASME, Handball Intramurals.



Kenneth Afferton CE
Box 406, R.D. #3,
Wharton, New Jersey.
Secretary, ASCE, Student Chapter, Member of Intramural
Championship Swimming Team 61-62, Member of LAM.



Leon I. Baboff ME
413 Grand St.
NYC 2, N. Y.
Ruler, Lambda Sigma Kappa, Chairman of Activities Plan,
JAC treasurer, member of Committee on Student Activities, in-
tramural volleyball and softball, ASME.

Get the muzzle!



Stanley Birnbaum EE
86 Atkins Avenue,
Brooklyn 8, N.Y.
Alpha Mu Sigma fraternity, Vice-President and Secretary of
ESSC, Secretary AIEE-IRE, JAC, Scholastic Honors List, Tennis
Club, Assorted Intramurals.

Only "halba tsorres" this week, Reiss!



Morton H. Blatt ME
1314 Caffrey Ave.,
Far Rockaway 91, N.Y.
Alpha Mu Sigma Pledgemaster, Manager Table Tennis Tourna-
ment, ASME, Vice-President, Freshman Class President, ESSC,
Student Leader, All Sports Dinner Committee, Athletic Associ-
ation Board, Student Bank Treasurer, JAC.

Erik M. Bodow ChE
82-33 165th St.,
Jamaica 32, N.Y.

AMS Fraternity (Prior, House and Social Chairman), AICHe,
Vice-President and Editor of the "Filter Press", Deans List, In-
tramural Softball, Student Leader.

*"What good is it if you have the inclination, but don't have
the time?"*



Peter M. Bungay ChE
1829 E. 34th St.,
Brooklyn 34, N.Y.

Omega Delta Phi, Student Leader, AICHe, T.G.I.F.



Barry J. Bunin EE
2133 E. 34th St.,
Brooklyn 34, N.Y.

Eta Kappa Nu, Lambda Sigma Kappa Social Chairman, ESSC,
Treasurer, JAC, IRE, Student Leader, Dean's List (All Terms),
Intramural Basketball, Softball.

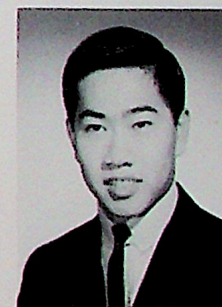
It is better to have loved and lost — much better!



James Chan EE
29 Fleet Walk,
Brooklyn 1, N.Y.

Athletic Association-President, All-Sports Dinner, Vice-Chair-
man, Tennis Club-Team, Treasurer, All Sorts of Intramurals,
JAC, AMS, Tau Beta Pi, Eta Kappa Nu.

The world is full of so much pooh!



Stephen J. Cinnamon ChE
14 Knowles St.,
Yonkers, New York.

AICHe Film Chairman, AMS, Student Leader.

Where's my lunch?





Gerald R. Cohen ChE
164 Throop Ave.,
Brooklyn 6, N.Y.
The American Institute of Chemical Engineers.



Ronald Csuha ChE
347 Boulevard,
Bayonne, New Jersey.
Member of ODP Fraternity, Vice-President of Newman Club.

At times like this I wonder where I'm going.



Vito DiFranco ChE
34-36 90th St.,
Jackson Heights 72, N.Y.
Scholastic Honors List, '59 and '62, AIChE, Head of Library
and Publicity Committee of AIChE, Chairman of Membership
Committee for Omega Delta Phi Fraternity.



Stephen B. Dobrow EE
31-40 56th St.,
Woodside 77, N.Y.
Copy Editor-Pioneer, IRE Secretary, SZO, Dean's List.

This is the way the world ends, not with a bang but a whimper.
—T. S. Elliot.



Jack J. Eichenbaum ChE
34-63 Jordan St.,
Bayside 61, N.Y.
Student Leader, Chairman Alumni Day, Field Day Committee,
Pioneer, AIChE-Editor of the Filter Press, Intramurals, APO-
Secretary, Committee on Student Activities.

*I hate books; they only teach us to talk about things we
know nothing about.*

— Jean-Jacques Rousseau.

Robert Ennis ChE
538 Hedgeman Ave.,
Brooklyn 7, N.Y.
APO, American Institute of Chemical Engineers.



Howard I. Epstein CE
3829 Maple Ave.,
Brooklyn 24, N.Y.
Fencing Team-Captain, Fencing Club, LSK-Secretary, Chi Epsi-
lon-Vice-President, Pioneer-Circulation Manager, AP Salesman,
ASCE, Honor Societies Dinner Chairman, Glee Club, LAM,
Gold "C", Silver "C".

For the glory of the epee team!



Jerome Feder EE
2516 Laconia Avenue,
NYC, 69, N.Y.
IRE-Treasurer, Alpha Mu Sigma Fraternity, Regents Engi-
neering Scholarship.

*Feder, tell me all you know about Keats. I don't know any-
thing. I don't even know what they are.*



Charles J. Feltman ME
16 Stuyvesant Oval,
NYC, 9, N.Y.
Scholastic Honors List, Vice President and Service Chairman
of APO Fraternity, Yacht Club and Team, Glee Club, Volley-
ball, Rifle, Bowling, Basketball, and Baseball Intramurals.

The pun is mightier than the sword.



Peter V. Fiorentino ME
425 Miller Avenue,
Brooklyn 7, N.Y.
Pioneer, Cable, Hiking Club, Great Hall Players, Humanities
Club, Student Peace Union, AMS, Gold "C".

I like to walk at my ease and stop when I like.

— Jean Jacques Rousseau





Jerome S. Fleischman EE
30-26 36th St.,
L.I.C. 3, N.Y.
President of Alpha Phi Omega, Business Manager of Cable,
Gold "C". AIEE-IRE, ESSC, Secretary of IFC, Intramurals,
Dean's List, Tau Beta Pi, Eta Kappa Nu.

I am too sophisticated to leave a quote for posterity.



Douglas G. Fox CE
130-19 228th St.,
Laurelton 13, N.Y.
Member ODP Fraternity, ASCE, LAM, AA, ESSC, Manager-
Swimming Intramural, Chairman-ASCE, Annual Dinner Com-
mittee, Editor of "Survey", Various Intramurals.

*"...and thought of many things that do not occur to the young."
— "Looking Back" by Guy De Maupassant*



Jonathan J. Frank CE
1388 Morris Ave.,
NYC 56, N.Y.
Hiking Club (Activities Chairman), ASCE.

"The eye is the best of artists."

— Emerson



Charles L. Fraust CE
1192 Walton Ave.,
NYC 52, N.Y.
Varsity Basketball Team, SKT Athletic Chairman, LAM,
ASCE, Intramural Basketball, Volleyball, Softball.

No, Professor. That's Fraust as in F-R-O-S-T.



Alfred S. Gilman ME
111 Hamburg Tpke.,
Pompton Lakes, New Jersey.
Tau Beta Pi, Pi Tau Sigma, Fencing, Cable.

Jerry H. Green EE
2010 Ocean Ave.,
Brooklyn 30, N.Y.
Lambda Sigma Kappa Fraternity, ESSC, IRE, Scholastic Honors
List, Intramurals.

*Life's journey is a succession of flat tires — Keep pumping,
Wolberg!*

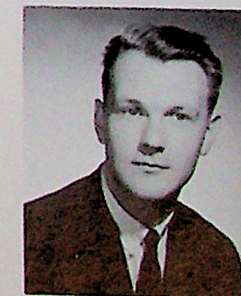
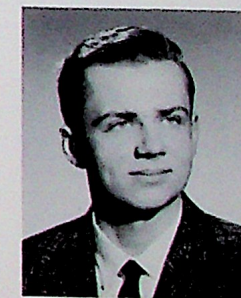
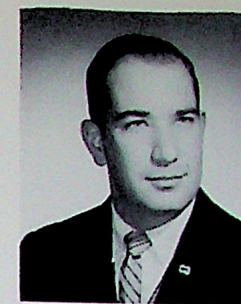
Charles C. Groth ME
2185 Davidson Ave.,
NYC 53, N.Y.

Harry L. Jaeger ME
385 Atkins Ave.,
Brooklyn 8, N.Y.
Lambda Sigma Kappa Fraternity, ASME, Intramural Sports,
Representative to Engineering School Student Council, Dean's
List, Student Leader.

Hey, Ivan! What'd you get?

Raymond G. Jesaitis ChE
158-05 45th Ave.
Flushing 58, N. Y.

Gernot L. Klauser ChE
97-10 62nd Dr.,
Rego Park 73, N.Y.
AIChE, Alpha Phi Omega Fraternity.





Bruce R. Knauer ChE
25-62 41st St.,
L.I.C. 3, N.Y.
Alpha Phi Omega-Recording Secretary, AIChE-Vice President,
Green Camp Student Leader.

*"If a man does not keep pace with his companions, perhaps
it is because he hears a different drummer . . . let him step to
the music he hears."*

— Henry David Thoreau.



Miroslav M. Kolpak CE
317 George Rd.,
Cliffside Park, New Jersey.
Tennis Team-Captain, ASCE-Vice President, Newman Club,
Member of Championship Intramural Swimming Team, '61-
'62, LAM.

Uzasny



Richard A. Lodwig EE
1060 Carukin St.,
Franklin Square, N.Y.
Omega Delta Phi Fraternity, Varsity Basketball, Intramurals,
AIEE-IRE, Newman Club, Rifle Club.

*Hey, Andy, how do you convert this number into A plus jB
form?*

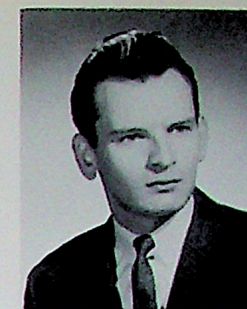


Cary S. Marshall ChE
2770 W. 33rd St.,
Brooklyn 24, N.Y.
Intramurals, Dean's List, AIChE.

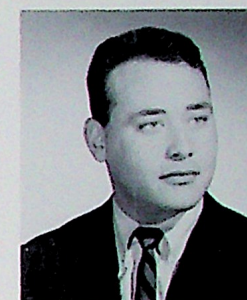


Chester Miller ChE
1107 Lenox Rd.,
Brooklyn 12, N.Y.
Alpha Mu Sigma Fraternity, Tau Beta Pi, AIChE, ESSC, Dean's
List, Intramurals.

"Ace"



Jaroslaw Mulyk ME
31-56 36th St.,
L.I.C. 6, N.Y.
Omega Delta Phi Fraternity, Pi Tau Sigma, ASME, Volleyball
and Rifle Intramurals.



Gerald E. Nash ME
59 W. Fenimore St.,
Valley Stream, N.Y.
Member of Lambda Sigma Kappa Fraternity, ASME.



Bernard A. Nathan EE
2080 Wallace Ave.,
NYC 62, N.Y.
Sigma Kappa Tau Fraternity, Intramurals, Varsity Basketball
Team.

*"All's fair in love and war, and if you win at either the ex-
penses don't end."*



Steven Oshen ChE
1125 Wyatt St.,
NYC 60, N.Y.
Alpha Mu Sigma Fraternity, ESSC (1962-3), AIChE.



Edward Ott EE
253 North Broadway,
Yonkers, New York.
Sigma Kappa Tau Fraternity, AIEE-Secretary, Tau Beta Pi,
Intramurals, R.P.B.S., Eta Kappa Nu.



Arthur E. Parente ME
8 Dohrman Avenue,
Teaneck, New Jersey.
ESSC, Corresponding Secretary and Vice-Prior of Alpha Mu
Sigma, Secretary of ASME, Louise.

*Let us be thankful for the fools.
But for them, the rest of us could not succeed.*
—Mark Twain



Harry Pearle EE
130-13 227th St.,
Laurelton 13, N.Y.
Cable Staff, Dean's List, IRE, Intramural Rifle Tourney,
Charter Member of Four Musketeers.

How many wrongs make a right? To know is to succeed.



Andrew J. Poggio EE
30-25 153rd St.,
Flushing 54, N.Y.
Newman Club-Vice President, Secretary, Treasurer, AIEE-IRE
Chairman, Omega Delta Phi Fraternity-Secretary, Intramural
Bowling, Softball, Rifle, Basketball, Swimming, Volleyball,
Scholastic Honors List.

Better dead than wed.



Valentine Povinelli Jr. ME
109-47 214th St.,
Queens Village, 29, N.Y.
Omega Delta Phi Fraternity-Vice President, President of New-
man Club, ASME, All sorts of Intramurals.



Gerd W. Printz EE
2311 Grand Ave.,
NYC 68, N.Y.
Tau Beta Pi-Vice President, Eta Kappa Nu, Rifle Club-Secre-
tary, Treasurer, President, Rifle Team-Captain, GCAC, Stu-
dent Leader, Hiking Club-Treasurer, Protestant Club-Vice
President, AIEE-IRE, Omega Delta Phi Fraternity, Handball
Intramural Manager, Rifle Intramural-Ass't. Manager, Gold
"C"
Thanks.

Marshall Rafal ChE
22-08 Clintonville St.,
Whitestone 57, N.Y.

Tau Beta Pi-Corresponding Secretary, Humanities Club-Presi-
dent, ESSC-Treasurer, AICHE-President, Alpha Mu Sigma Fra-
ternity.

Stephen Rattien EE
2560 Batchelder St.,
Brooklyn 35, N.Y.

Photography Editor of Cable '62, '63, Captain of Independent
Swimming Team, ESSC, IRE, Charter Member of Four Muske-
teers.

*"And so, to the end of history, murder shall breed murder,
always in the name of right and honor and peace, until the
Gods are tired of blood, and create a race that can understand."*
—George Bernard Shaw

Joel D. Reiss ME
1529 42nd St.,
Brooklyn 19, N.Y.

Editor-In-Chief of Cable, '62, '63, JAC Secretary, '61-'62, Pi
Tau Sigma, Hiking Club, ASME, Basketball, Bowling Intra-
murals, Charter Member of the Four Musketeers.

The only J.D. with a B.S.

Walter J. Riback ChE
383 Grand St.,
NYC 22, N.Y.

Secretary of AICHE, Member of Volleyball Club-Team, Basket-
ball, Volleyball Intramurals.

Barry M. Rosenbaum ChE
912 Pelham Parkway S.,
NYC 62, N.Y.

Sigma Kappa Tau Fraternity-Vice President, AICHE, Basketball,
Volleyball, Bowling and Softball Intramurals.





William H. Rowe III CE
126-22 Francis Lewis Blvd.,
Laurelton 13, N.Y.
Omega Delta Phi Fraternity, Chairman GCAC, ASCE-Presi-
dent, Chairman of Field Day Committee, Newman Club-Vice
President, Gold "C", JAC, Second Prize — Public Speaking
Contest.



David Rubin CE
2311 E. 29th St.,
Brooklyn 29, N.Y.
Tau Beta Pi, President of Chi Epsilon, Lambda Sigma Kappa,
ASCE Officer, Intramurals, "C" Awards Chairman, JAC, ESSC,
LAM.

Will someone pass a slide rule, see-through, paper, pencil . . .



Frederick Rupp EE
682 Repetti St.
Westwood, New Jersey.
AIEE-IRE, Pioneer, Rifle Team-Manager, Rifle Club-V.P.,
President, Rifle Intramural Manager, Protestant Club-Secretary,
Treasurer, Hiking Club, Intramurals, Student Leader, Gold
"C", Omega Delta Phi Fraternity.

"... and (I go) far and wee"



Melvyn L. Rumerman ME
1530 Sheridan Ave.,
NYC 57, N.Y.
Fencing Team, Business Manager-Cable, Pi Tau Sigma, Dean's
List.

*You probably can if you think you can, and you surely can
if Sandler can.*

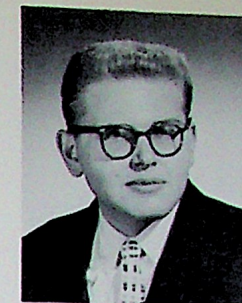


William H. Sandholm CE
632 57th St.,
Brooklyn 20, N.Y.
AA Vice President, ASCE, LAM, Omega Delta Phi Fraternity.

"Sit down, Meadowlark."

Ivan S. Sandler ME
3100 Brighton 3rd St.,
Brooklyn 35, N.Y.
Softball, Volleyball, Rifle, Bowling Intramurals, Sigma Kappa
Tau Fraternity, Pi Tau Sigma-President, Tau Beta Pi.

"It's wrong, Stern."



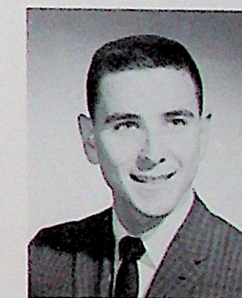
Barry H. Schechtman EE
785 Mace Ave.,
NYC 57, N.Y.
Sigma Kappa Tau Fraternity-President, Pledgemaster, House
Chairman, Eta Kappa Nu, President of IFC, Vice President of
JAC, Aquatic Leader, Volleyball Team, Hiking Club, Intra-
murals, Tau Beta Pi, L.A.M.F., R.P.B.S.



George P. Sendekyj ME
230 E. 4th St.,
NYC 3, N.Y.
Chess Club and Team.



Laurence S. Silverstein EE
84-41 171 St.,
Jamaica 32, N.Y.
News Editor of Pioneer, Rifle Club, Rifle Intramural, AIEE-
IRE.



Richard C. Simon ME
2410 Kings Highway,
Brooklyn 29, N.Y.
President and Vice President of JAC, President ESSC, Chair-
man-Annual Dance Committee, Committee on Student Activi-
ties, Lambda Sigma Kappa Fraternity, Vice-Chairman, Human
Rights Conference, Freshman Orientation Counselor, Intra-
murals, Director of 1962 Bridge Tournament, ASME.

*My candle burns at both ends; it will not last the night;
But ah, my foes, and oh, my friends — it gives a lovely light.
— Edna St. Vincent Millay*





Philip C. Singer CE
1483 E. 16th St.
Brooklyn 30, N. Y.

President ESSC, LSK Fraternity-Vice Ruler and Recording Sec'y, Activities Editor-Cable, Manager-Volleyball Intramural, Circulation Manager of Pioneer, JAC, ASCE, AA, LAM, Various Intramurals, Annual Dance Committee, Gold "C", Orientation Camp Counselor, Chairman of Human Rights Conference.

"Oh!, that this too, too solid flesh would melt!"



Stephen F. Sousk ME
34-13 Crescent St.,
L.I.C. 3, N.Y.

Chess Team-Captain, Tennis Team-Vice President, ASME-Vice President, Hiking Club, Orientation Camp Counselor, Field Day Committee.

Whoso would be a man must be a nonconformist.



Jonathan A. Spencer EE
31-40 76th St.,
E. Elmhurst 70, N.Y.

Editor-in-Chief of Pioneer, JAC, Dean's List, IRE, Yacht Club, Sailing Team.



Robert Stern ME
1373 Odell St.,
Wantaugh, N.Y.

Volleyball, Softball Intramurals, Basketball Intramurals-Captain, Treasurer of Pi Tau Sigma, Tau Beta Pi, ASME, Lambda Sigma Kappa Fraternity, Dean's List.



Emile S. Tobenfeld EE
150 Ocean Ave.,
Brooklyn 25, N.Y.

Chess Team, Tau Beta Pi, Honors List.

Never bet into a one card draw



Donald E. Wade EE
35-55 73rd St.,
Jackson Heights 72, N.Y.

Hiking Club, Student Leader, IRE, Blackboard Monitor.

Who wants to go hiking this weekend?



Michael H. Weissman ME
28-16 Jordan St.,
Flushing 58, N.Y.

ASME-Secretary, Pi Tau Sigma-Corresponding Secretary, Dean's List, Alpha Mu Sigma, Secretary, Treasurer.

Leonard Wolberg ME
1901 E. 17th St.,
Brooklyn 29, N.Y.

Student Leader, Vice-Chairman of Annual Dance Committee, ESSC, Tennis Team, Group Leader-Human Rights Conference, Intramurals, Lambda Sigma Kappa Fraternity, ASME.

*There is no lonely line of pride
That keeps us all apart, instead
A jar of earth that holds us all
And makes for all his final bed.*



Victor F. Yesavage ChE
220 Kingsland Ave.,
Brooklyn 22, N.Y.

Omega Delta Phi Fraternity, Intramurals, AICHE, Tau Beta Pi, Softball Intramural Manager, Athletic Association, Newman Club.



Morris Balanson EE
2055 69th St.,
Brooklyn 4, N.Y.

Treasurer-Eta Kappa Nu.





Peter Bonanos ME
385 E. 16th St.,
Brooklyn 29, N.Y.



Rosario A. Bracco, Jr. ME
198-30 30th Ave.,
Flushing 58, N.Y.
Newman Club, ASME.

*In my years at Cooper I have learned that no man's advice
is entirely worthless; even a watch that won't run is right twice
a day.*



Raymond R. Burns ME
429 Sterling Pl.,
Brooklyn 38, N.Y.



Michael A. Caiafa EE
571 10th St.,
Brooklyn 15, N.Y.



Irwin E. Carlen EE
22 Drake Rd.,
Franklin Township, New Jersey.

Allen H. Cobert ME
2013 E. 12th St.,
Brooklyn 29, N.Y.
Honor List 1961-62, Evening Senior Class Treasurer, ASME.

Sam S. Como EE
93-05 63rd Rd.,
Rego Park, N.Y.

Alfred Fox ME
2035 Rockaway Pkwy.,
Brooklyn 36, N.Y.

Joseph F. Fox ME
259-02 Kensington Pl.,
Great Neck, N.Y.
Senior Engineering Class President.

Joseph Friedes EE
672 E. 83rd St.,
Brooklyn 36, N.Y.





Alfonso Gallina EE
1658 W. Moreland Rd.,
Merrick, L.I.
AIEE.



John R. Gentile Jr. ME
282 Caryl Dr.,
Lawrence, N.Y.
Pi Tau Sigma



Richard N. Heiligenstadt ME
438 2nd Ave.,
E. Northport, N.Y.
Pi Tau Sigma.



Edward L. Hartmann EE
69-18 69th St.,
Glendale 27, N.Y.



Robert E. Jehle EE
8316 94th St.,
Woodhaven 21, N.Y.

Henry J. Kolnsberg ME
3034 91st St.,
Jackson Heights, N.Y.
Pi Tau Sigma, Tau Beta Pi, Physics Award.

Potius Sero Quam Nunquam.

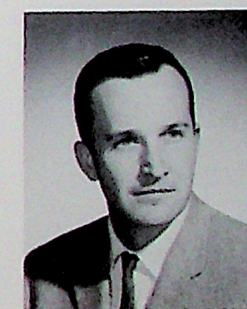
Howard Langer EE
42-10 Colden Ave.,
Flushing 55, N.Y.

Charles M. McCarthy ME
2031 Haring St.,
Brooklyn 29, N.Y.

I owe it all to Mo.

John J. McGinn EE
325 W. 19th St.,
Deer Park, N.Y.
Tau Beta Pi-Secretary, 1961-2, President, 1962-3, Eta Kappa
Nu, President and co-founder.

William P. Mezzabarba ME
175 Willoughby St.,
Brooklyn 1, N.Y.
ASME.





Franklin G. Miller ME
297 Lexington Ave.,
Passaic, New Jersey.
Tau Beta Pi, ASME.

*May the Cooper Union continue to offer its unique opportunity
for an education!*



John L. Moran EE
561 Davis Ave.,
Richmond 10, N.Y.
Tau Beta Pi, Eta Kappa Nu, Class Secretary.



Vincent C. Morrone EE
165 Beach 60th St.,
Rockaway, N.Y.

What's next? A master's in EE, or a law degree?

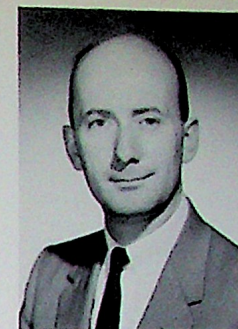


Ambrose Popp, Jr. EE
25 Olean Ave.,
Jersey City 4, New Jersey.
Newman Club.



Ciro M. Robustelli ME
275 Bay 13th St.,
Brooklyn 14, N.Y.

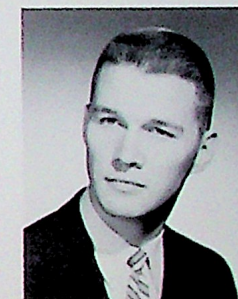
Arrive we will!



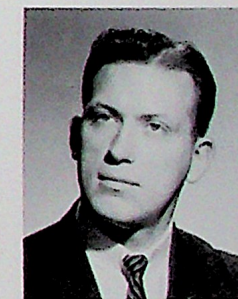
James A. Rooney EE
2504 Lefferts Pl.,
Bellmore, N.Y.
Newman Club.



Johannes W. Verleur EE
211 Branch Ave.,
Freeport, N.Y.



James B. Wyatt ME
5722 Avenue O,
Brooklyn 34, N.Y.



Roger K. Sullivan EE
1561 Unionport Rd.
NYC 62, N. Y.

Recording Secretary of Tau Beta Pi
and Eta Kappa Nu, Pi Tau Sigma

Martin Langer ME
216 W. 89th St.,
NYC 24, N.Y.

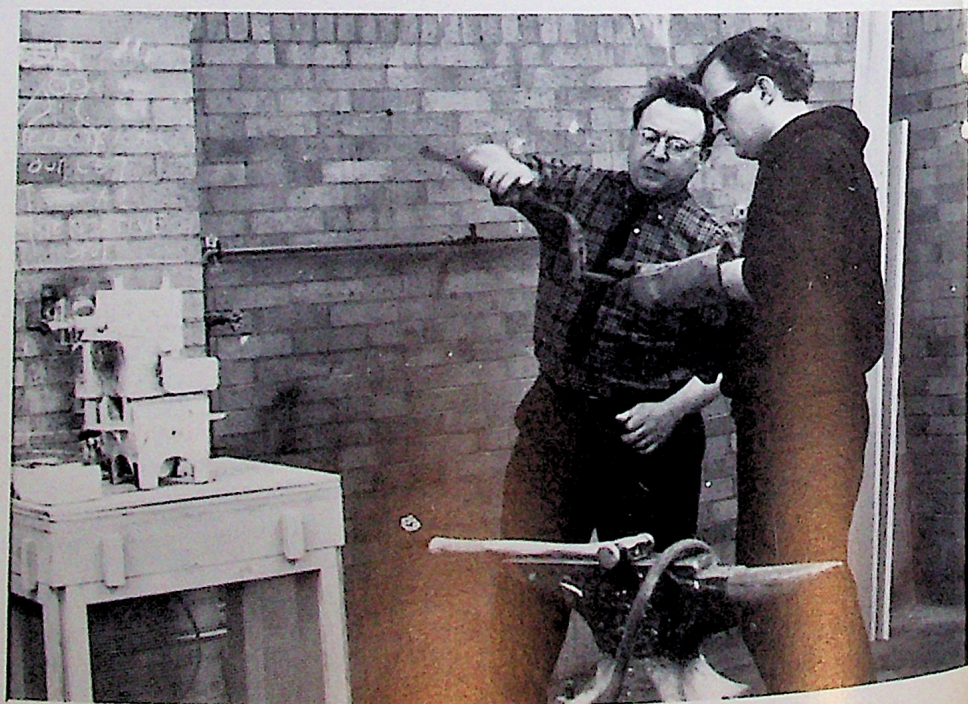
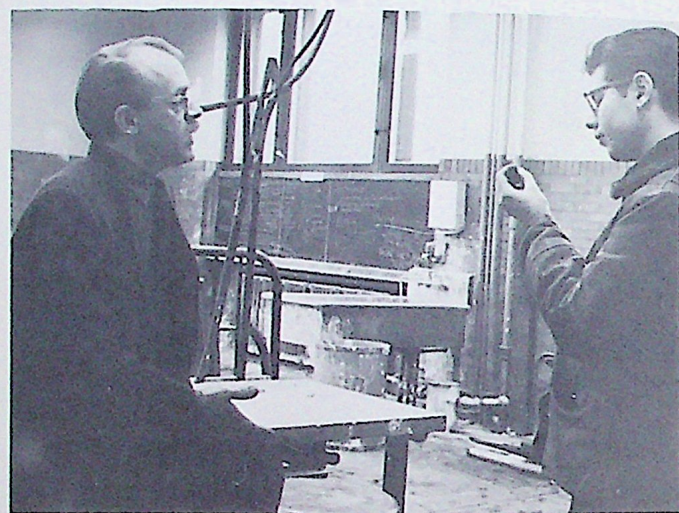
John F. Marine EE
330 W. 15th St.,
NYC 11, N.Y.

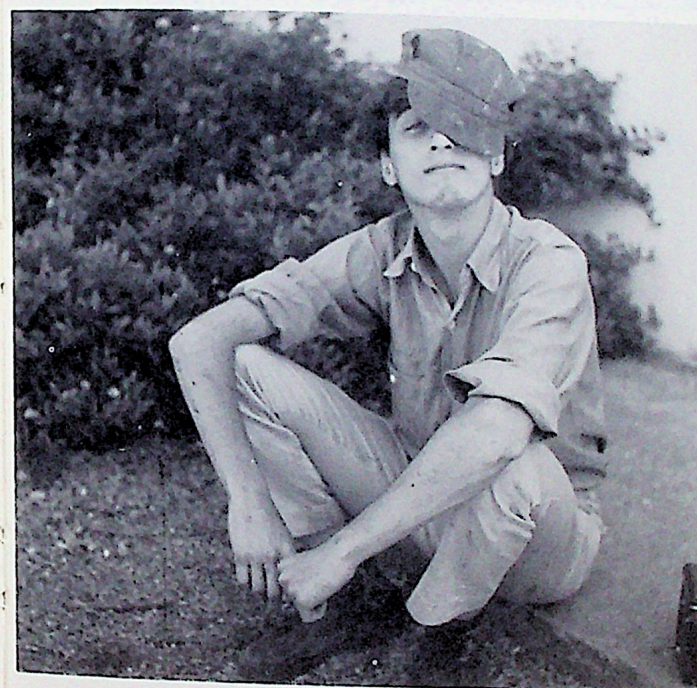
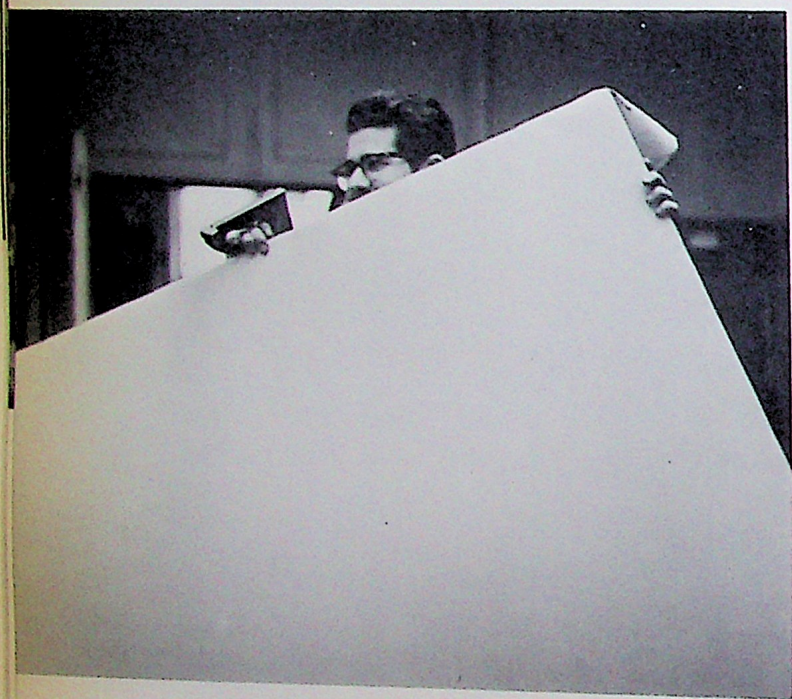
Roger M. Wright ME
19 Meritt Ave.,
White Plains, N.Y.

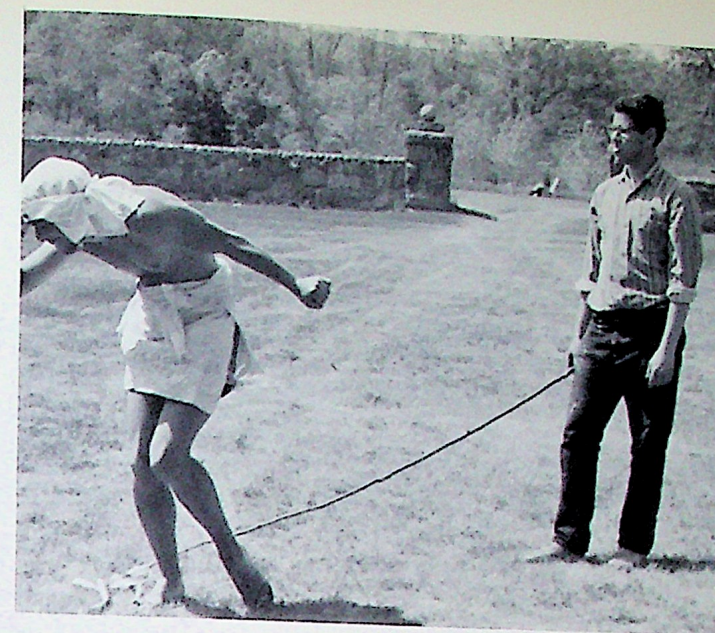
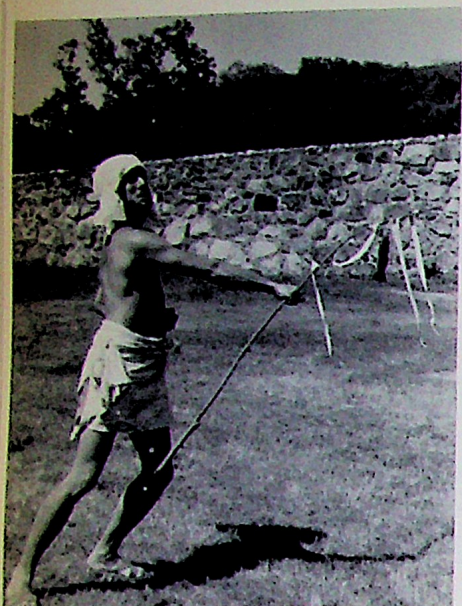






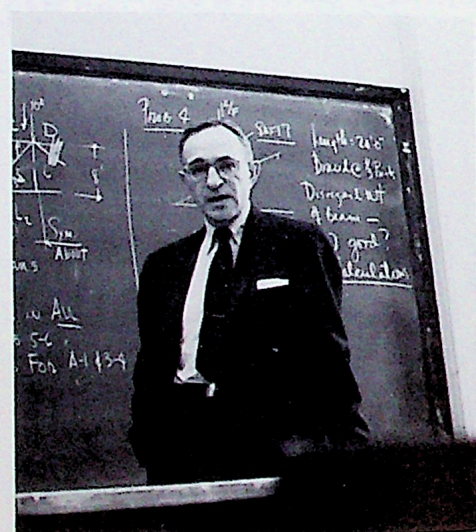
















Alexandra Barbuck FA
30-54 33rd St.,
Astoria 3, N.Y.



Ellen Chao FA
147-05 Sanford Ave.,
Flushing 54, N.Y.
Cable.

"Le livre est sur la table"

— Voltaire



James E. Craig DES
51 Morton St.,
NYC 14, N.Y.



Joanna J. Gapinski FA
888 Stratford Dr.,
East Meadow, N.Y.



Jutta V. Hagen FA
11 Seymour St.
Montclair, N. J.



Kadi Karist FA
30-54 33rd St.,
Astoria 2, N.Y.



Kathleen Kazlau DES
48½ E. 7th St.,
NYC 3, N.Y.
Great Hall Players, Gold "C" Award.



Rose Lau DES
100 W. 87th St.,
NYC 24, N.Y.



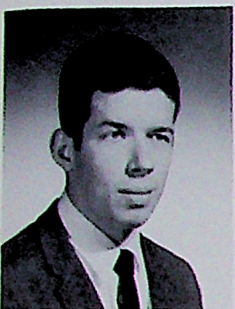
Rachelle D. Liberman DES
38-56 Bronx Blvd.,
Bronx 67, N.Y.
Cheerleader, Student Leader, GCAC, Cable Staff, Drama Club,
President of Hiking Club.



William B. Millstein FA
1138 E. 15th St.,
Brooklyn 30, N.Y.
Great Hall Players



Stuart L. Nagel FA
141 2nd Ave.,
NYC 3, N.Y.
Varsity Basketball Team.



Robert T. Niland FA
231 Grove St.,
Montclair, New Jersey
Fencing Team.



Richard C. Peck FA
314 E. 6th St.,
NYC 3, N.Y.
Protestant Club 1,2,3,4, President 3, V.P. 4, Cable Art Editor
3,4, JAC 4, Pigment Club Scholarship 3.



Angelo A. Perrone DES
669 Arnow Ave.,
NYC 67, N.Y.
Cable Staff.



Priscilla Persky FA
2065 First Ave.,
NYC 29, N.Y.



Mary Quinault DES
254 W. 25th St.,
NYC 1, N.Y.
Cooper Union Drama Club, Volunteer Work in Bellevue in
Children's Recreation.



Richard Quinones FA
636 E. 14th St.,
NYC 9, N.Y.
JAC, Art School Student Council, Senior Representative, Cable.



Modris Ramans FA
122 Winthrop St.,
Brooklyn 22, N.Y.
Drama Club, Cable Staff.



Bruce Rivenburg FA
9 Blanche St.,
Plainview.



Phyllis G. Rosenblatt FA
34-21 78th St.,
Jackson Heights 72, N.Y.
Drama Club, Recorder Players Club.



Eugene Shulman FA
51 Horatio St.,
NYC 14, N.Y.



Neal Slavin DES
56 Bristol St.,
Brooklyn 12, N.Y.



Francine L. Stollak FA
43 Eldridge St.,
NYC 2, N.Y.

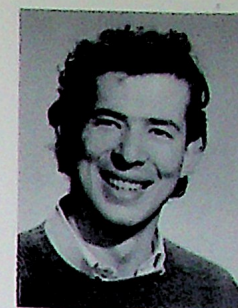


Richard I. Sussman DES
71-64 164th St.,
Flushing 65, N.Y.
Sigma Kappa Tau Fraternity, Great Hall Players.



John Tierney DES
58 St. Marks Pl.,
NYC 3, N.Y.

Edgar Weinstock FA
700 E. 28th St.,
Paterson 4, New Jersey



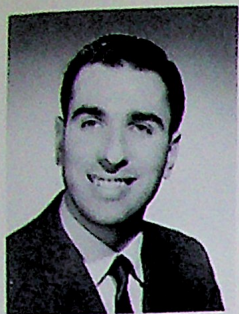
Marc Wurmbrand FA
7 Metropolitan Oval,
NYC 62, N.Y.



Nicholas DiGiuseppe DES
397 N. 12th St.,
Newark, New Jersey.

Lucy T. Martin DES
73 E. 4th St.,
NYC 3, N.Y.

John J. Schiano DES
29 Minna St.,
Brooklyn 18, N.Y.



Paul J. Agule DES
60-36 Little Neck Pkwy.,
Little Neck, N.Y.

Designing with words is not my forte, but I'll try to express gratitude with these few: "Everlasting thanks for everlasting knowledge."



Thomas S. Alberti DES
102-16 63rd Ave.,
Forest Hills 75, N.Y.



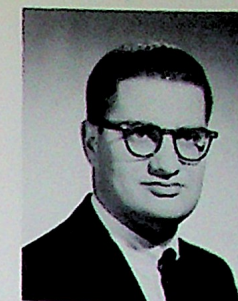
Christina Amellio DES
520 E. 88th St.,
NYC 28, N.Y.



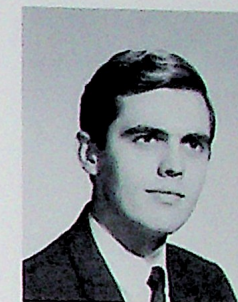
Heidi S. Auer DES
32-13 86th St.,
Jackson Heights 69, N.Y.
Protestant Club.



Anthony G. Barone DES
2054 Hudson St.,
Fort Lee, New Jersey.



Leon A. Bolognese DES
21 Oakdale Ave.,
New Rochelle, N.Y.



John E. Bosson DES
51 St. Marks Pl.
NYC 3, N. Y.



Anne S. Brody DES
329 E. 10th St.,
NYC 9, N.Y.



Dimitrios Caratzas DES
3508 Kings College Pl.,
NYC 67, N.Y.



Steve Chirogianis DES
124-19 23rd Ave.,
College Pt. 56, N.Y.



Janith G. Davids ARCH
133 Sagamore Rd.,
Tuckahoe, N.Y.



Stanley C. Dunaj DES
9021 Second Ave.,
North Bergen, New Jersey.



Richard D. Esposito DES
286 Van Sicklen St.,
Brooklyn 23, N.Y.

To Mssrs. Delevante, Kosakoff, Stone, Standard, Kratina, Haas, Wysocki, de Harak, Grushkin, Moy, Ramirez, Hoernle, Lawrence, Rosenblum, Gorbaty, Stuart: Thank you!



Brian S. Farrow DES
91 Webster Ave.,
Brooklyn 30, N.Y.



Michael P. Feldman DES
110 Christopher St.,
NYC 14, N.Y.

Nadine R. Gross DES
2815 Coyle St.,
Brooklyn 35, N.Y.

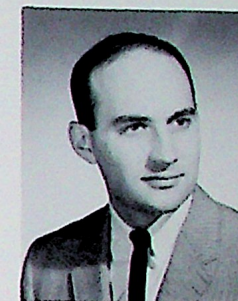
Credits to D.G.

Thomas W. Haas DES
30-44 48th St.,
L.I.C. 3, N.Y.

John G. Haines DES
73 S. Walnut St.,
East Orange, New Jersey.

Willis Hogans DES
1781 Bruckner Blvd.,
NYC 72, N.Y.
School Art Exhibit 1959 and 1962.

Cosmo J. Iovino ARCH
252 Garfield Place,
Brooklyn 15, N.Y.





Ronald M. Johnson DES
116 Remsen St.,
Brooklyn, N.Y.



Aldis Kristans DES
347 W. 71st St.,
NYC 23, N.Y.



Frank R. Manuella DES
67 Second Pl.,
Brooklyn 31, N.Y.



Rhoda L. McHugh DES
312 Park Ave.,
Orange, New Jersey.

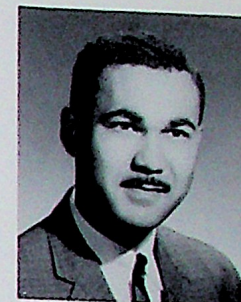


Patrick J. O'Brian DES
90-27 170th St.,
Jamaica 32, N.Y.

Loretta Pipkin DES
100 La Salle St.,
NYC 27, N.Y.



Frederick L. Robinson DES
1905 2nd Ave.
NYC 29, N. Y.



Gladys Rodriquez DES
608 W. 177th St.,
NYC 33, N.Y.



Harold Rolls ARCH
113 Hickory Lane,
Levittown, N.Y.

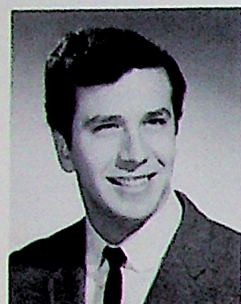


Martin Rosen DES
635 E. 80th St.
Brooklyn 36, N. Y.





Eva A. Russo DES
28 St. Marks Pl.,
NYC 3, N.Y.



Richard Samperi DES
41-40 Parsons Blvd.,
Flushing 55, N.Y.



Robert P. Santana DES
115-56 Francis Lewis Blvd.
Cambria Heights, N. Y.



Robert J. Scialla ARCH
50 Dongan Hills Ave.,
Richmond 4, N.Y.

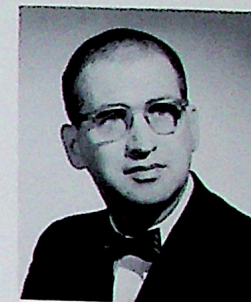


Robert J. Sievert DES
227 Front St.,
NYC 38, N.Y.

Florence D. Silverman DES
441 Stockholm St.,
Brooklyn 37, N.Y.



Charles N. Smith DES
133 Passaic Ave.,
Summit, New Jersey



John Staiano DES
119 Wolcott St.,
Brooklyn 31, N.Y.



Nancy Stark DES
1149 Stratford Ave.,
NYC 72, N.Y.

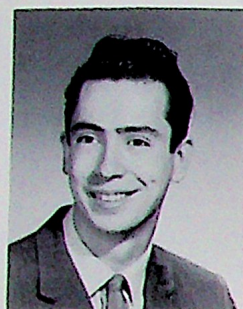


Kathleen Sussman DES
237 W. 11th St.,
NYC 14, N.Y.





Dorothy E. Thomas DES
259 W. 12th St.,
NYC 14, N.Y.



Alfonso Villano DES
309 E. 170th St.
NYC 56, N. Y.



Charles J. Zimmerman DES
812 Suburban Pl.,
NYC 60, N.Y.

Noel P. Birkby ARCH
Joan E. Bastone DES
Romolo N. Cosentino DES
Joan S. Cooper DES
Kurt Dachinker ARCH
Kenneth Darling DES
James J. Delgrosso DES
Ann L. Forman DES
Warner G. Friedman DES
John A. Geryak DES
George Grant, Jr. ARCH
Alexander E. Hadaro ARCH
Elizabeth K. Hagedorn DES
Joseph F. Imbriani ARCH
Charles L. Kintzing DES
Carl G. Laanes DES

Stuart M. Lipkin DES
Joyce Lisak DES
Arthur S. Lutzfer DES
David J. Marshall DES
Dennis McCarthy DES
Joan R. Moravek DES
Peter C. Paris DES
Donald W. Reilly DES
Mary L. Roberts DES
Marilyn Scher DES
Paul Seidenstein DES
Lynda N. Simmons ARCH
Kevin L. Tarnopol DES
Ronald J. Tornow DES
Robert Voorman DES
Patricia Zablocki DES





Light is coming through the window. I can sleep no more. Outside Quercus Alba, the white oak is laden with snow, and icicles hang from bushes like many pointed fingers. My steps are in the downy blanket; it matters not whether they melt away or be filled again with snow.

The pond is deceptively encrusted with ice, for beneath the water rages on. I see the mirror of the trees and their branches like the veins and core of our being writhe and twist in the wind.

I seem to hear voices rise up from the earth, voices of those who have been here and of what was past. I seem to see the spring and the ground dotted with canvases of those inspired and desirous of suspending a moment of being. And the swings oscillating from under the branches of the trees to over the ripples in the river. I see the chipmunk scurrying to his haven, and a cottontail bobbing through the woods, a beaver waddling across the lawn with his flat tail persistently flapping against the earth.







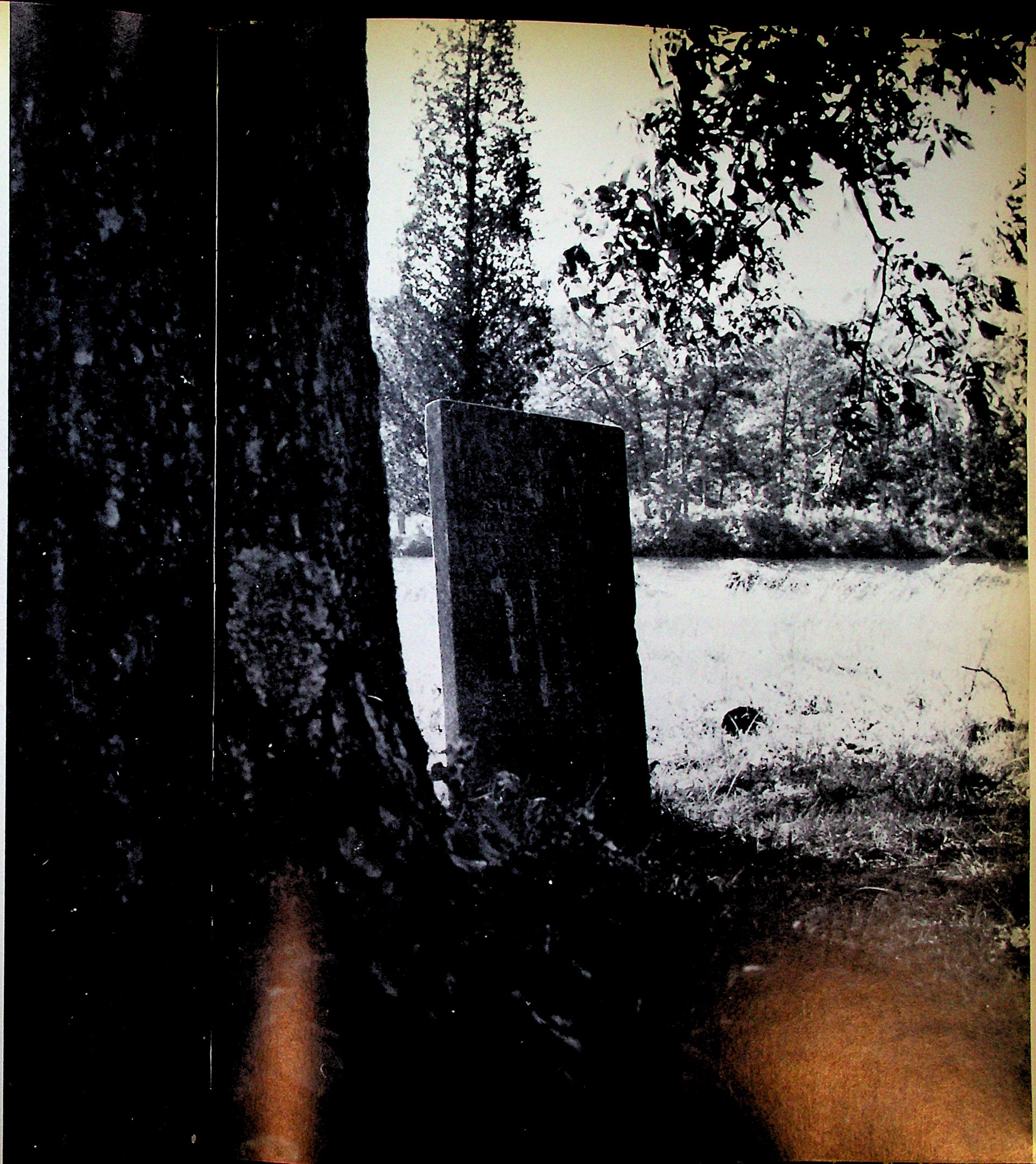
I walk, once more, on the path to Erskine, where the smell of pines is sweet, and the ground undulates beneath the feet of those who have trodden there. The trail is pounded out, but still the brush weaves itself, attempting seclusion anew. Light is aslant on the clearing where a tree has fallen and all is bathed in glow. Here is one removed from that previously known, no experience save of this sheltering place, mystical, romantic, spiritual — timeless.

Super highways, housing projects, shopping centers may be built around, but nothing will ever change this, for it is this land that the sun sheds light upon and glorifies though the rest of the world be dark.

I see Erskine Lodge, accumulating coats of paint and wear as civilization collects and stores the experiences of past generations.

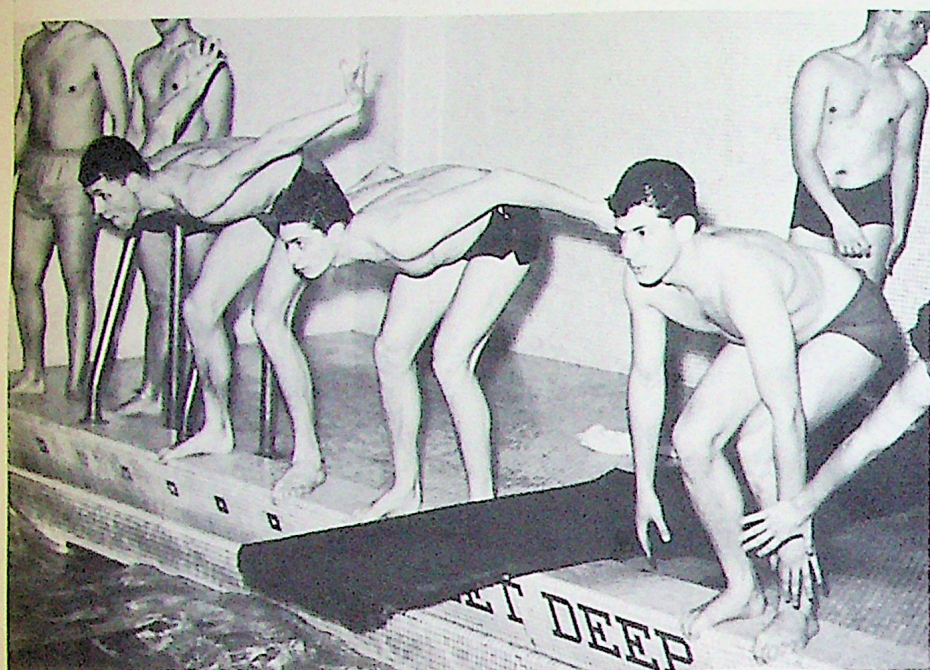
How strange to think how we shall be near — but it is not the same; the land is left for those of young to grow, and we have gone.







Richard O. Abbott Ralph J. Alliegro Leo Amino Arnold Arbeit Anthony E. Armenakas
 Sholom Arzt Louis Axelbank Dicky Ball William E. Barksdale Will Barnet Salvatore
 Barone Bertram Bassuk Hannes Beckmann Richard Bender Robert H. Blackburn Mary
 F. Blade Varujan Y. Boghosian John L. Bove Richard S. Bowman Paul Brach Harold
 Breen Joseph Breitenbach Samuel M. Brody Arthur E. Bye Charles Cajori Frank M.
 Caldiero Victor Candell Nicholas Carone Ralph DeS. Childs Salvatore E. Cuppola Ben-
 jamin F. Cunningham Stefano Cusumano Joseph A. D'Amelio Richard Dattner Ismar
 David Lewis Davis Joseph De Chiara Lindsey Decker Paul V. DeLuca Raymond B.
 Dowden Stephen M. Edelglass Walton D. Ellison Weller B. Embler Sidney Epstein
 George Feinstein Edward F. Ferrand Harvey I. Fersten Jay Fleischman Thaddeus R.
 Gatza Samuel Gelfman Leon Goldin Gene Golub Norman Gorbaty Alexander Graham
 Robert H. Gray Edward M. Griswold Paula N. Grossman Kingman N. Glover Philip
 Grushkin S. Frederick Guggenheim Robert Gwaltney Robert Haas Tyler G. Hicks
 John Hoernle H. Lawrence Hoffman J. Clinton Hollinger Henry B. Hope John Hovannes
 Robert G. Hundley Angelo Ippolito John C. Kacere Reuben Kadish Joseph Kalb Israel
 Kalish Philip M. Kane Morris Kantor Brent Kaplan Leo S. Kaplan Ralph L. Knapp
 Edward F. Knowles Herbert R. Kornblum K. George Kratina Michael G. Kullman Walter
 S. Kut Daniel Laitin Herbert Liebeskind Kenneth E. Lofgren Oswaldo Lourenso Ar-
 sete J. Lucchesi David Lund Harry Mahler Leo Manso Nicholas Marsicano Robert A.
 Mayo James C. McCrea Donald V. Mehus Richard A. Meier Lawrence B. Menrelsohn
 Walter J. Middleton Frederick H. Miller Seong Moy John J. Naso Marvin B. Newman
 Philip Nudd James N. O'Gorman Milton Ohring Tobias O'Mara Gerald A. Paul J.
 Merriam Peterson James R. Pfafflin George Picken Joseph F. Pizzirusso Michael Ponce
 de Leon Gerald Post Arthur H. Radasch Charles L. Rosenbaum Walter Rosenblum
 Richards Ruben George Salter Joop Sanders Karl Schrag Alan Schwartzman James
 Secrest Charles Seide Harold D. Shane William C. Shapiro Esmond Shaw Gerald
 P. Shea Clarence S. Sherman Jesse B. Sherman Bertram Silverman Bebe Spanos Rer-
 nard P. Spring Paul Standard Ernest W. Starr Milton Stecher Richard G. Stein
 Robert L. Steinberger Jack Stewart Henry W. Stone Henry W. Sullivan Frank H. Tall-
 man Aaron J. Teller Ted Tessler Wallace I. Thurston Dana P. Vaughn William A.
 Vopat Felix A. Wallace Alan Wayne Norval C. White Joseph Winter Chester J. Wis-
 niewski Hellmut Wohl Matthew Wysocki A. Aaron Yalow Adja Yunkers Morris Zietlin
 Bernard Zivotofsky



ACTIVITIES

The student body at The Cooper Union, though relatively small, possesses a significant storehouse of talent, interest, and ability in diverse areas quite distinct from art or engineering. It is this fact which is the motivating purpose behind the existence of Cooper Union's student activities. The skimpy financial support for most of these organizations should not be construed as lack of interest. Rather, the longevity of Cooper's organizations under economically anemic conditions shows evidence of perseverance and drive which the non-participant may indeed find remarkable.

It is hoped that the new student fee, beginning in September, 1963, will alleviate some of the more pressing financial headaches of the student activities, and permit them to more ably serve as outlets for student growth in the extracurricular area.



ACTIVITIES PLAN

Once more, the social life at Cooper was aided by AP and its members. An increase in student membership and participation led to great success for the varied AP-sponsored program of activities. Highlights of this year's social calendar included the well-run and successful Annual Dance, Field Day, and SAC's Skit Nite and Square Dance. Student publications were likewise financially aided by AP, the result being better editions of Pioneer and Cable. Other areas of student activity which AP aided were the Athletic Association, and Activities Award Program (formerly known as Gold "C").

The success of the student activities program this year was due to the interest of student body members. With the coming changes in the method of financing student activities, it is hoped and expected that a broader, more diversified program will be made available in the years to come.



JOINT ACTIVITIES COMMITTEE

This year was the busiest and most important year in the history of the Joint Activities Committee. With the advent of the new \$100 compulsory fee, it became the job of JAC to decide how much of this money it felt should be given to student activities. More important was the method which would be used in distributing this money. As a result, JAC investigated the possibility of a complete revamping of student government at Cooper. With this in mind, JAC held a student government weekend at Green Camp in January. Students, faculty, and administrative officers from all phases of Cooper life were invited to attend and participate. Students from the various organizations and clubs proposed future plans and suggestions. These proposals were discussed in small groups. The methods by which a new student government might be organized were also discussed at length.

At the regularly scheduled meetings, as well as at numerous special meetings, called by President Rick Simon, JAC debated the many other topics on its agenda. After many hours of deliberation, JAC budgeted this year's AP money. The Gold C Committee was unanimously elected to become the fourteenth member of JAC and Gold C's new proposal for the distribution of activities awards was carefully analyzed. An amendment to the constitution to permit an alternative representative of an organization to attend meetings with full voting privileges in the absence of a regular delegate was approved.

The pros and cons of joining a national or local student association such as the National Student Association or the Metropolitan Intercollegiate Activities Council was considered. JAC sponsored this year's very enjoyable school Christmas Party and also co-sponsored the first annual Human Rights Conference in conjunction with the New York City Human Rights Commission. This conference, held at Cooper Union, was attended by 175 representatives from 13 colleges and was chaired by ESSC President Phil Singer.

JAC has strived this year to provide Cooper with an enriched extra-curricular program administered by an effective student government. We look to the future!

THE ATHLETIC ASSOCIATION

Cooper's athletic program, supported and directed by the Athletic Association, is extensive and well adapted to participation by a large portion of the student body. The activities this year fell into three well defined groups: Varsity Sports, Intramural Tournaments, and non-athletic functions.

For the truly sports-minded student, the AA supported four Varsity Teams: Bowling, Fencing, Rifle, and Sailing. All had extensive schedules with schools in the metropolitan area and some got to travel to schools in New England and elsewhere. Although not of All-America calibre, the Cooper teams enjoy competition and give the inexperienced student a chance to work his way into Varsity level sports.

The AA's Intramural program is designed for participation by a large number of students organized in school units (section, fraternity, etc.) in competitive tournaments. The AA sponsored eight tournaments this year: Volleyball, Three and Five Man Basketball, Handicap Bowling, Rifle, Swimming, Softball, and Table Tennis. The large turnout in the fall intramurals indicate another successful year for these events.

In the non-athletic area, the AA sponsors Field Day in the Fall and the All Sports Dinner at the end of the school year. This year's Field Day was chilly but the sun stayed out and the large group of students and their guests were able to enjoy the camp and the field activities out of doors. The credit for a successful school activity such as Field Day must go to student participation, and especially to those individuals from the AA and others who volunteer their time to plan and run the activity.

The All Sports Dinner in May promises to be one of the most successful in history. At this dinner, recognition is given to achievement within the scope of the AA's program of Varsity Sports and Intramurals, both in the areas of competition and organization. To all those who participate in, and enjoy the athletic activities at Cooper, it is the high point of the AA program.

ENGINEERING SCHOOL STUDENT COUNCIL

In the four years which the class of '63 has spent at Cooper, the School of Engineering has undergone changes of great import. We have seen (in order of appearance) a new building constructed, a new President inaugurated, and the appointment of two new deans. This year, the ESSC, under the guidance of Professor Peterson, and the leadership of President Phil Singer, caught some of the momentum. New projects and programs, all having the aim of giving the student a louder voice in areas of concern previously regulated solely by faculty and administration groups, were formulated. Consideration was given to plans to alter the basic structure of the body so as to heighten its prestige and influence in student affairs.

It was suggested that each year elect a president and vice-president, (in addition to a student body president and vice-president,) all of whom would serve as council members. Another notable step was the appointment of council members to appear before faculty committees to promote council policies. The success of this program was illustrated by the warm reception given to a calendar proposed by the council. Student disciplinary control was a topic often discussed at meetings.

During the spring term, the council ran its second successful open house. The parents of engineering students were invited to an inspection tour of the Engineering Building. School laboratories were opened, and some of the more "sensational" experiments were performed. Finally, talks on several aspects of student life were given by members of the faculty and administration.

THE PIONEER

The Pioneer, the Cooper student's source of news around school and the clearing house for student opinion, has improved its dependability (if not its quality) this past year. This was no mean accomplishment in view of its editors' constant grumblings about voluminous lab reports, impossible examinations, and in addition, of all things, a newspaper strike.

Dependability, however, is not an attribute which alone justifies a newspaper's existence, for it is the primary job of a school newspaper, in addition to coming out on time, to serve the educational and extracurricular needs of the Cooper student. In these two areas, the Pioneer has made significant contributions this year, by means of editorial criticism and news articles publicizing student activities. The year has also witnessed greater Art School participation in the activities of the Pioneer, a trend which hopefully will continue in the years to come.



GREEN CAMP ADVISORY COMMITTEE

The Green Camp is one of the more unique features of Cooper Union. Development of leadership qualities and a better camp policy aimed at fulfilling the educational purposes of The Cooper Union are the main objectives of GCAC. Throughout the year, all students are given an opportunity to go to camp and participate in the programs student leaders establish. But the camp is more...

"Let's go up to the shelter and cook breakfast and slide down and stick in and hear and whisper and YELL and tell and search deep."

When these guys begin to see what it is to get involved and really begin to be part of it all, we can be glad."

"Pow-wow and freshman orientation—holy cow,

I didn't think it'd be like this."

"Sing songs, build, ride, walk, all a part of what we feel and know is real."

(Thoughts of a student leader during a weekend)

MATHEMATICS SOCIETY

Members of the Math Society have discovered that there is a lot more to the subject than what is found in Miller's text. The mathematical hobbyist will find much in the Society's program to satisfy his interest and arouse his enthusiasm. At meetings, members give talks on a variety of topics in pure and applied mathematics. Recent talks have been given on such diverse subjects as theory of numbers, statistical sampling, and nomography. This year, in addition, the Math Society is printing for the first time a magazine containing articles of interest to all Cooper Students.

FENCING TEAM

Having lost many seniors from the squad which compiled the best record in fencing team history, Cooper's swordsmen nevertheless set to work with vigor, and proceeded to give a good account of themselves against their select intercollegiate competition.

NEWMAN CLUB

An organization of Catholic students on a secular campus, the Newman Club forms a vital nucleus for the advancement of Catholicism among the student body. The primary objective is pursued through such diverse activities as talks by speakers on topics of religious interest and round table discussions among the members. Since a Catholic must be an example to all, ample opportunity is given to the development of a well-rounded social life. All the activities of the Newman Club are therefore oriented to lead not only to the advancement of Catholicism, but also to the advancement of Catholics in our present world.

PROTESTANT CLUB

The Protestant Club of Cooper Union strives to deal with day-to-day problems as well as the spiritual needs of the student body. Bible study and guest speakers supplemented the usual free discussions led by Pastor Riss. Practically all denominations were represented in these meetings, and each person was given the opportunity to express his opinions. The club sponsored several noteworthy social activities, not the least of which was the annual retreat to Green Camp.

STUDENT ZIONIST ORGANIZATION

SZO at Cooper Union strives for two primary goals: First, the organization interprets to the school community, students and faculty the history, meaning, and promise of both Zionism and the state of Israel. Secondly, SZO encourages Jewish students in the study and participation in all aspects of affirmative Jewish living.

These goals are accomplished through the various phases of a program which includes educational, cultural, and social activities. The educational program provides for speakers from outside organizations and fields of special interest, and the showing of films depicting the land redevelopment program of the state of Israel.

The highlight of the club's social activities is the "kumzitz" held each year. This event gives the students a chance to socialize with members of SZO chapters in other colleges.

THE YACHT CLUB

The members of the Cooper Union Yacht Club, enjoyed some fine sailing during the fall, and expect to spend many more weekends on the Long Island Sound, during the remainder of the spring term and throughout the summer.

The pleasure of sailing this spring has been greatly increased as a result of the repair program, which the club carried out during the winter months. This program started in mid-November, when the club's three boats were removed from City Island, to the basement of the Hewitt Building. The hulls were then sanded clean of all old paint. Damaged areas were refiberglassed, and finally fresh paints were applied. Early in March the boats were returned to City Island, where old rigging was repaired and where necessary, replaced.

In addition to putting the boats back into shape, the repair program prevented the usual dwindling of spirit and membership which comes with winter.

During the spring sailing season, the club extended an invitation to all Cooper students to join them at City Island on any Sunday for a pleasant day of sailing. A similar invitation will probably be made in the fall.

1963 EVENING ENGINEERING
SENIOR CLASS OFFICERS:

PRESIDENT: Joseph F. Fox
VICE-PRESIDENT: Edward L. Hartmann
TREASURER: Allen H. Cobert
SECRETARY: John L. Moran
GIFT COMMITTEE: Allen H. Cobert, *Chairman*
James A. Rooney
SOCIAL COMMITTEE: Edward L. Hartmann, *Chairman*
Ambrose Popp
John R. Gentile
Raymond A. Burns
Charles M. McCarthy

INTERFRATERNITY COUNCIL

For the Interfraternity Council, the 1962-3 academic year has been one of radical change. Ably assisted by Professor Shapiro and Dr. Ball, the IFC has undertaken a reorganization of its entire structure. The heart of this effort was a complete rewriting of the IFC constitution to strengthen and guide the council in coming years.

Among its many functions, the IFC has this year successfully and significantly contributed to such events as Alumni Day at Green Camp, Intramural Sports, and Skit Nite. In addition, plans are being made for the first annual IFC All-Fraternity Social Outing, which promises to be a gala affair. The reorganized Interfraternity Council now looks to the near future for increasing number and broadening scope in its many activities.

ANNUAL DANCE

As the strains of the eight-piece Thomas-Leighton orchestra greeted the wee hours of the morning, the 46th Annual Dance of The Cooper Union became history. Fond memories will be cherished by all who attended. The congenial atmosphere provided by the Grand Ballroom of the Hotel Edison harmonized with the jovial mood of the Cooper students and their guests. Who can ever forget their "favorite" professor crawling under the limbo bar? For that matter, the Cooper Queen, in all her splendor was a sight to behold as well. Yes, the Dance may now be history, but everyone agreed that it was indeed a huge success.

GOLD "C" COMMITTEE

Extracurricular activities are a vital and integral part of a well-rounded college education. Participation in these activities provides its own development of personality and character. However, outstanding achievement in this area wins for the Cooperite a small but tangible award from the Gold "C" Committee. Leaders of extracurricular activity receive gold and silver "C"s which are presented at the annual awards ceremony. Richard Fass is committee chairman for 1962-63.

THE GREAT HALL PLAYERS

During the past school year, the Great Hall Players, consisting of students from both the Art and Architecture and Engineering Schools, put on two full length productions. The fall semester's contribution was revue entitled "Any Number Can Play", which presented various authors' views on war. Selections were taken from drama, poetry, and prose. Authors represented in this production were Sherwood, Anouilh, Joseph Heller, and John Dos Passos. The last, a brief exert of whose "U.S.A." was presented, was represented more adequately in the spring when the players presented a full length version of "U.S.A." in the Great Hall. As in the past, the free performances were given an enthusiastic reception by both the public and the student body.

RIFLE CLUB

There is one word which can characterize the activities of the Rifle Club this year — improvement. It began last summer when several members of the club took on the task of renovating the log cabin after an attack of vandalism during the spring. For the first time (it seemed) there was a pane in every window. In addition, two new bunks and a non-rusty stove-pipe improved living conditions in the cabin.

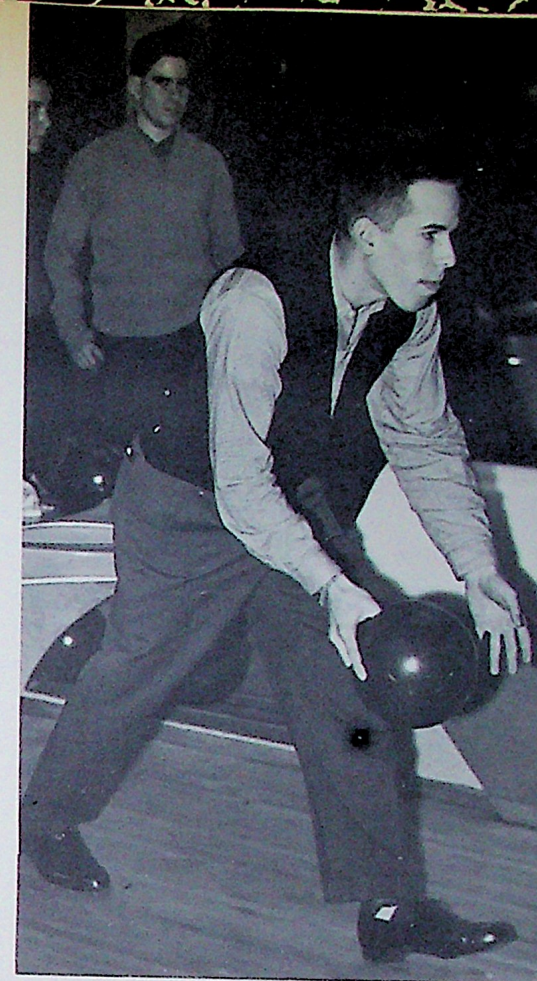
The Rifle Team likewise enjoyed its best season in recent years. Although the won-lost record showed little change, individual and team scores were the highest on record, and promising new members indicate that the trend will continue. The Rifle Intramural was once again an outstanding success, as it gained even more recognition that the first one, held the year before. Though it is the rookie of the intramurals, the manner in which it has been run has been a great attraction to both fraternal, and non-fraternal organizations.

HIKING CLUB

It is rare indeed when a trip leader remembers to bring a map or is able to find the trail markers, but when such a miracle occurs, the members of the CUHC can begin one of their eventful excursions into the great out of doors. This group spends many a carefree weekend tramping through the green woods in search of historic landmarks, or, more often, the road back to civilization. Hiking, square-dancing, and camping are the mainstays of club activity, as always, but occasional forays are made into the areas of caving, rock-climbing, and (ugh!) winter mountaineering.

The highlight of any season is the annual Thanksgiving Turkey Roast at Cupsaw Shelter. Old members, new members, friends, alumni, and faculty members convene to gossip about their diverse hiking experiences over a delicious turkey dinner prepared in true woodsman's style—half burned.

As long as there is a blade of grass outside of the classroom to lure students away from stuffy schoolwork, the CUHC need not worry about where its members are coming from.



BOWLING TEAM

This year's Varsity Bowling Team was greatly strengthened by five new additions. Bob Carroll, Don Cook, Chuck Hofmayer, Steve Levee, and Heinz "57" Rosen are the bowlers participating in their first season of varsity competition. Scott Hopke, Bill Rohan, and Jerry Rosenberg returned from last year's competition.

The team has maintained a position in the first division of an extremely difficult league, and has continually been gaining ground since mid-season. Prospects for next year are extremely bright, as all bowlers will return for another season.



Good organization, careful planning and an interested staff are the key to any successful yearbook venture

CABLE 1963

FACULTY ADVISOR: Professor Raymond B. Dowden

EDITOR-IN-CHIEF: Joel D. Reiss

FIRST HARBINGER OF SPRING: Richard Peck

THE WORM THAT TURNED: Modris Ramans

FLEDGLING: Lester Barnett

PHOTOGRAPHIC EDITOR, ENGINEERING SCHOOL: Stephen Rattien

BUSINESS MANAGERS: Jerome Fleischman
Melvyn Rurerman

ACTIVITIES EDITOR: Philip C. Singer

SENIOR EDITOR: Harry Pearle

EDITORIAL ASSISTANT: Stanley Pillar

ACTIVITIES CONTRIBUTORS:

Leon Baboff
Herman Bilenko
Ken Bridbord
Bob Carroll
Gary Chavez
Peter Fiorentino
Mark Fogel
Kenneth Kamholtz
Andy Poggio
Gerd Printz
Bill Rowe

Fred Rupp

Rick Simon

Phil Singer

LITERARY CONTRIBUTORS:

Richard Fass

Rachelle Liberman

PHOTOGRAPHIC CONTRIBUTORS,

ENGINEERING SCHOOL:

Arthur Parente

Steven Rattien

Murray Sharkey

George Sendeckyj

FRATERNITIES



& SOCIETIES



Top Row, Left to Right: Barry Schectman, Edward Ott, Chester Miller, Richard Fass, Ivan Sandler, John Moran, Edward Goldfinger, Herman Bilenko, William Myers, David Rubin. Second Row: Emile Tobenfeld, James MacLennan, Robert Stern, Victor Yesavage, Raymond Jesaitis, George Suffal, Robert Osgood, John McCabe, William Herbig. Third Row: Professor Roemmele, Gerd Printz, Marshall Rafal, Jeff McGinn, Roger Sullivan, Robert Kantscheidt, Professor Vopat. Front Row: Wilfred Thoms, Jerome Fleischman, James Chan.

TAU BETA PI

The Tau Beta Pi Association, national engineering honor society was founded at Lehigh University in 1885 by Edward Higenson Williams, Jr., "to mark in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character as undergraduates in engineering, or by their attainments as alumni in the field of engineering, and to foster a spirit of liberal culture in the engineering colleges of America."

— Preamble to the Tau Beta Pi Constitution

The Society is represented at The Cooper Union by New York Iota Chapter, which has provided the School of Engineering with tutorial and course evaluation programs for several years. In order to "foster the spirit of liberal culture," the chapter awards an annual prize for excellence in the Humanities.

President: John McGinn
Vice-President: Gerd Printz
Recording Sec'y: Roger Sullivan
Corresponding Sec'y: Marshall Rafal
Treasurer: Wilfred Thoms
Cataloguer: Robert Kantscheidt

CHI EPSILON

Chi Epsilon, the national Civil Engineering Honor Fraternity, aims to acknowledge outstanding scholarship and seeks to develop in undergraduate civil engineers a high standard of character. Future engineers with a high sense of integrity will increase the effectiveness of the civil engineering profession and act as a positive means of bettering human society.

The Cooper Union chapter has, since its founding in 1949, taken an active part in the aims of the national society. Its annual fresh-

man award for high scholarship provides encouragement and recognition. The chapter also maintains a free tutoring service for Civil Engineering students. Among the chapter's alumni membership are men whose outstanding attainments in the profession have earned them the highest regard. Cooper Union's Chi Epsilon brothers have traditionally held positions of high responsibility in the fraternity's national conclave.

President: David Rubin
Vice-President: Howard Epstein
Secretary: Daniel Hegarty
Treasurer: Gary Chavez
Faculty Advisor: Dr. Armenakas

Top Row, Left to Right: David Perelman, Richard Rand, Jesse Schwartz, Sanford Davis. Bottom Row: Gary Chavez, David Rubin, Howard Epstein, Daniel Hegarty. Camera Shy: Paul Fabijanic.





Top Row, Left to Right: Walter Feldt, Roger Sullivan, Ed Goldfinger, Paul Wheeler. Middle Row: Wilfred Thoms, Mel Rumerman, Michael Weissman, Bob Stern. Bottom Row: Joel Reiss, Professor Roemmele, Ivan Sandler, Professor Vopat, Jerry Mulyk. Camera Shy: Al Gilman, Henry Kolnsberg, Jim Gentile, Richard Heiligenstadt, Ted Balderes.

PI TAU SIGMA

The Cooper Union Pi Phi Chapter of Pi Tau Sigma, the National Honorary Mechanical Engineering Society, was founded "to establish a closer bond of fellowship . . . to those men in the study and profession of Mechanical Engineering, who by their academic and practical achievement manifest a real interest and marked ability in their chosen work." We have not only tried to be of assistance to the Mechanical Engi-

neering Department, and to foster the high ideals of the Engineering Profession, but also to provide some means of social association between our day and evening Mechanical Engineering students.

Students are selected for membership in PTS on the basis of exemplary scholarship, integrity, personality and sound engineering ability from the upper third of the Mechanical Engineering upperclassmen.

President: Ivan Sandler
Vice-President: Jerry Mulyk
Treasurer: Bob Stern
Recording Secretary: Joel Reiss
Corresponding Secretary: Mike Weissman

ETA KAPPA NU

This year saw the establishment at The Cooper Union, of a regular chapter of Eta Kappa Nu, the national honorary electrical engineering society. In his letter of welcome to the new Cooper Union chapter, John A. M. Lyon, national President of Eta Kappa Nu, characterized the society:

It encourages its members to continually

strive towards the highest scholastic and moral standards. It emphasizes that every electrical engineer has an obligation to society in advancing the welfare of mankind."

In line with the above statement of President Lyon, the new chapter is already enthusiastically making plans for service to the school. We of the Cooper Union chapter of Eta Kappa Nu look forward to a bright future.

President: John J. McGinn
Vice-President: Gerd W. Printz
Recording Secretary: Roger K. Sullivan
Treasurer: Morris Balanson
Corresponding Secretary: Herman W. Bilenko
Bridge Correspondent: Rudolph C. Drechsler

Top Row: Edward Ott, Barry Schectman, John Moran, Barry Bunin. Second Row: James Chan, Edward Wolvick, William Myers, Jerome Fleischman, Louis Braida. Bottom Row: Rudolph Drechsler, Gerd Printz, John McGinn, Herman Bilenko, Roger Sullivan. Camera Shy: John McCabe, Robert Osgood





Top Row, Left to Right: Mike John, Steve Cinnamon, Ira Birnbaum, Pete Fiorentino, Marv Greene, Richie Rand, Stan Birnbaum, Chet Miller, Steve Oshen, Ben Gross. Second Row: Al Markowitz, Ricky Rand, Artie Parente, Marshall Rafal, Mike Weissman, Al Kaden, Lenny Yorinks, Charlie Brown, Morris Freyman. Third Row: Marcel Laurent, Pan Pittinsky, Shelly Langsam, Steve Levee, Bill Calvin, Rick Bodow, Gerry Dubin, Mike Cheifetz, Harvey Lieberman, Barry Schreiber. Front Row: Dave Weinstein, Howie Flug, Emile Safier, Pete Ruggieri, Marty Gelb, Steve Sussman, Richie Kasson, Eddie Trachman. Camera Shy: Mike Ackerman, Morty Blatt, Jimmy Chan, Jerry Feder, Sam Feldman, Bob Greenberg, Dave Kass, Steve Koestenblatt, Stu Meltzer, Doug Quinn, Lou Resnansky, Ronnie Wolf, Warren Walkow, Gerry Wasserman, Pete Mackauf.

ALPHA MU SIGMA

The Alpha Chapter of Alpha Mu Sigma has been an integral part of the Cooper Union scene since 1914, and the past year has been no exception. It's been a memorable year for us, from our September reunion to our pledge induction dinner and pledge-brother party. Just as the school has made its mark on us, and taken its toll, so we

have left our impression on the school. We have memories of a wild trip to Green Camp, several unique (and far from tame) stag and drag parties, a rose from an intimate garden, a freshly comic-painted bar, a savage McSorley's Day, management of the Cooper Queen contest, and participation in a full program of athletic events.

Prior: Rick Bodow
Vice-Prior: Steve Koestenblatt
Treasurer: Gerry Dubin
Pledgemaster: Bill Calvin
Corresponding Scribe: Ronnie Wolf
Recording Scribe: Stu Meltzer
Faculty Advisor: Prof. W. B. Embler

SIGMA KAPPA TAU

This marks the third happy year of Sigma Kappa Tau's occupancy in its spacious fraternity house, a place that has become one of the major focal points of student social life at Cooper Union. After many long months of hit and miss skirmishes with that rival fraternity, the St. Marks Place Bandits, the brothers have successfully defeated the enemy and have turned their home away from home into a veritable fortress.

Needless to say, the many highlights of Sigma Kappa Tau's fun-filled year included its McSorley's Day blasts, near-victories in the volleyball and bowling intramurals, many successful Friday and Saturday night affairs, and a "p" party to end all "p" parties.

The brotherhood of Sigma Kappa Tau looks forward to many years of merriment in the future, and extends to those who are leaving Cooper best wishes for success and happiness in whatever they undertake.

President: Barry Schechtman
Vice-President: Barry Rosenbaum
Pledgemaster: Gene Briskman
Treasurer: Mike Shulman
Social Chairman: Marty Sacks
House Chairman: Billy Hirsh
Athletic Chairman: Chuck Fraust
Recording Secretary: Herman Bilenko
Corresponding Secretary: Jeff Kerner
Historian: Murray Sharkey

Top Row: Joel Roisman, Andy Perla, Larry Shaw, Roy Schwartz, Jerry Ginsberg, Bob Winick, George Parrino, Mike Simon, Bernie Nathan, Len Kurzweil, Mark Fogel, Fern Lanf. Second Row: Mark Roskin, Ed Ott, Danny Kowler, Norm Lifshutz, Ilan Levi, Murray Sharkey, Norm Zarin, Richie Sussman, Jack Novodoff, Norm Lieberman, Hal Goldstein. Third Row: Joel Goldstein, Jeff Kerner, Marty Sacks, Gene Briskman, Billy Hirsh, Barry Schechtman, Mike Shulman, Chuck Fraust, Barry Rosenbaum, Howie Shapiro, Sandy Davis. Front Row: Bob Zalosh, Ira Mendelsohn, Stu Nagel, Larry Kaplan. Camera Shy: Herman Bilenko, Ivan Sandler.





Top Row, Left to Right: Greg Martin, Don Reilly, Spencer Smith, Vito DiFranco, John Vogel, Steve Pillar, Vic Yesavage. Second Row: Gerd Printz, Bill Rowe, Bill Sandholm, Pete Bungay, Frank Clemente, Walt Pumo, Fred Rupp. Front Row: Ron Shsua, Andy Poggio, Richy Lodwig, Professor Lofgren, Faculty Advisor, Val Povinelli, Jerry Mulyk. Down in Front: Gene Soltero, George Reeves, Gary Chavez.

Camera Shy: George Genneken, Paul Fabijanic, Doug Fox, Greg Farell, Bob Spindel, Jeo Clarke.

OMEGA DELTA PHI

The Delta Chapter of Omega Delta Phi occupies quarters at 58 East Seventh Street. Since the fraternity was founded in 1903, its purpose" . . . to perpetuate friendships made while students and to encourage and stimulate the love and esteem of the Alma Mater . . ." has been the guide for all activities.

President: Richard Lodwig
Vice-President: Valentine Povinelli
Secretary: Andrew Poggio
Treasurer: Jerry Mulyk
Faculty Advisor: Prof. Lofgren

LAMBDA SIGMA KAPPA

The 1962-63 academic year, the fiftieth year of the affiliation of Lambda Sigma Kappa with The Cooper Union, was one of its most successful. With many brothers in key student activity positions, LSK continued to serve the school.

Welcomed back to a repainted and refurnished house, the brothers were determined to make this year the best in the fraternity's history. LSK enjoyed its third "annual" trip to Philadelphia, had a successful weekend at

Green Camp (featuring LSK's "annual" broken ankle - Ed.) ; and a pleasant (?) day at a country club. Once again the renowned "LSK Story" played to packed houses. Other highlights included the LSK-Cooper Union Christmas Tree and the organization of our own alumni association.

The brothers of Lambda Sigma Kappa are very proud of their association with The Cooper Union and wish to extend congratulations to the entire class of 1963.

Ruler: Leon Baboff
Vice-Ruler: Phil Singer
Pledgemaster: Richard Fass
Treasurer: Barry Ortenberg
Faculty Advisors: Prof. Roemmele
Prof. Vopat

Top Row, Left to Right: David Krosky, Howard Epstein, David Rubin, Trevor Davis, Richard Simon, Bruce Freed, Michael Melnick, Harry Jaeger, Roy Rosner, Kenneth Bridbord. Center Row: Barry Bunin, Edward Walvick, Leonard Wolberg, Robert Stern, Harvey Kosherick, Michael Greenberg, Les Kleinberg, Jerry Green, David Perelman, Robert Solomon. Bottom Row: Barry Ortenberg, Professor Roemmele, Leon Baboff, Professor Vopat, Phil Singer, Richie Fass. Camera Shy: Jerry Nash, Ronald Schapira, Ira Buchalter.





Top Row, Left to Right: Gary Kellman, Neil Silverman, James Smith, Robert Butler, Ray Jesaitis, Ken Kamholtz, Jerome Garchick, Alvin Weinstein, Scott Maynard, Gordon Swartzman. Second Row: Joel Tendler, Stan Piller, Wally Kesselman, Richard Rosen, Sol Peltz, Bruce Knauer, Ronald Frei, Jared Rosenberg, Jack Eichenbaum. Front Row: Scott Hopke, Ray Burk, Jerome Fleischman, Chas Feltman, Aaron Serwetman.

NU KAPPA OMEGA

Nu Kappa Omega, Cooper Union's newest fraternity, was founded February 11, 1963. Its purposes are "to promote among its members at The Cooper Union a sense of individuality, and to develop their characters through active participation in programs oriented toward fellowship and leadership."

Located at 13 St. Marks Place in the midst of Manhattan's "luxurious" Village East, the brothers of NKO enjoyed many of the frat's wide activities including a four day trip to Green Camp, a Christmas ski trip, participation in Cooper's intramural program, and "other" activities.

President: Jerome Fleischman
Vice-President: Charles Feltman
Pledgemaster: Joel Tendler
Secretary: Richie Rosen
Treasurer: Aaron Serwetman
Alumni Sec'y: Wally Kesselman
Faculty Advisor: Prof. M. Stecher

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

The AIChE is represented at Cooper Union by a large student chapter. It endeavors to foster a professional attitude among its members as well as maintaining contact with the parent organization. Its activities include the annual dinner at Green Camp, participation in a Metropolitan Conference, presentation of guest speakers and an active film program.

President: Marshal Rafal
Vice-President: Erik Bodow
Secretary: Walter Riback
Treasurer: Terence McGovern
Faculty Advisor: Prof. Steinberger

Top Row, Left to Right: R. Fass, C. Miller, N. Lifshutz, D. Kowler, B. Rosenbaum, A. Perla. Second Row: P. Bungay, V. Yesavage, R. Jesaitis, V. DiFranco, S. Peltz, B. Knauer, S. Koestenblatt. Third Row: B. Ennis, S. Cinnamon, T. McGovern, M. Rafal, E. Bodow, W. Riback, A. Repko. Bottom Row: G. Wasserman, S. Oshen, J. Eichenbaum, G. Cohen.





Top Row, Left to Right: Gene Soltero, Sandy Davis, Mike Greenberg, Murray Sharkey, Richard Rand, Mark Fogel. Middle Row: Dave Perelman, Chuck Fraust, Harvey Kosherick, Howard Epstein, Gary Chavez, Frank Clemente, Philip Singer. Bottom Row: Larry Kaplan, Gene Briskman, Dave Rubin, William Rowe III, Mike Shulman, Bill Sandholm. Camera Shy: Sweet Ken Afferton, Sweetier Miro Kolpak, Unctious Doug Fox, Pungent John Frank.

AMERICAN SOCIETY OF CIVIL ENGINEERS

The purpose of the A.S.C.E. is to supplement the students' needs in the field of Civil Engineering. Each year this organization improves upon the previous years ideas in an effort to strive for a smoother, more successful program.

This year's activities included attendance at professional dinners, conventions, and meetings. Each week, qualified speakers addressed the chapter on all phases of Civil Engineering. Never dormant, the A.S.C.E. serves as a springboard where Cooper students may jump into the sea of knowledge.

President: William Henry Michael Panzer Rowe, III
Vice-President: Miro Kolpak
Treasurer: Dave Rubin
Secretaries: Mike Schulman
Pete Mackauf

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

Formerly known as the AIEE-IRE Joint Student Branch, the newly formed IEEE emerged from the consolidation of the two parent organizations on January 1st, 1963. The primary purpose of this professional society is to further the state of the electrical and electronic engineering arts.

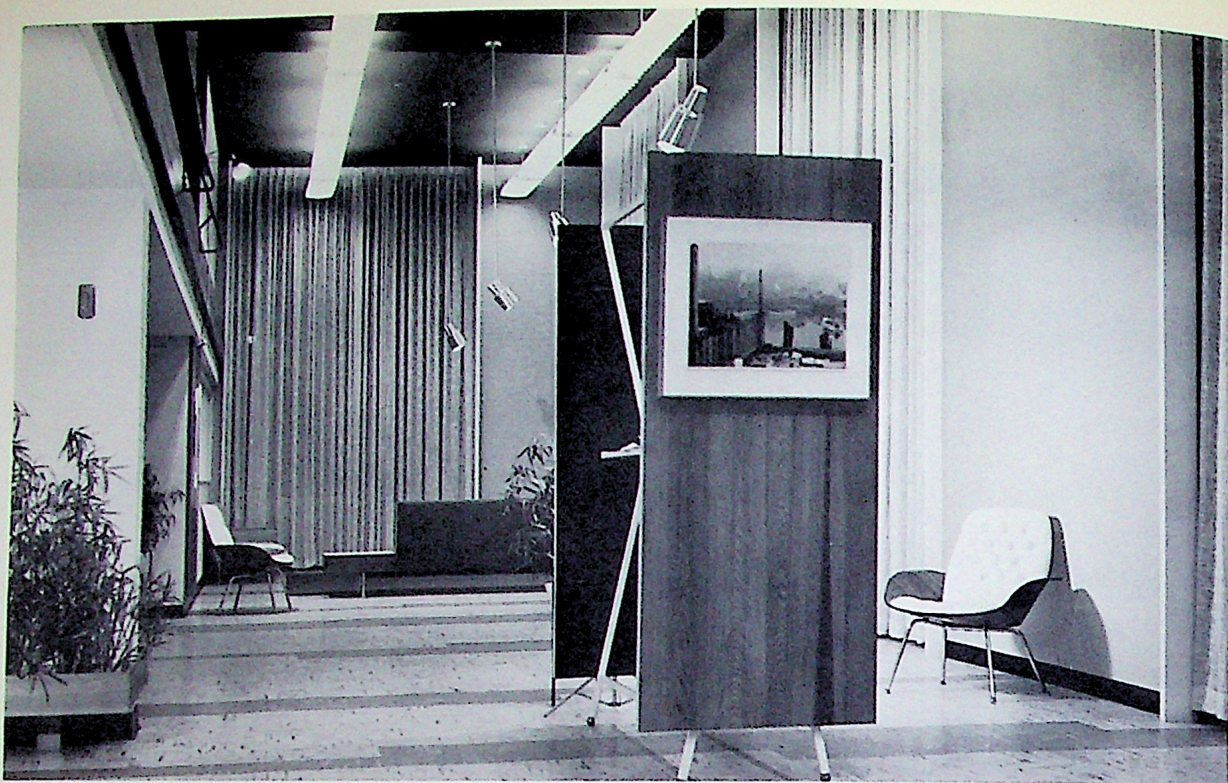
The purpose of the student branch is to bring the undergraduate closer to his pro-

fession and to acquaint him with many of the technical advances of the day. The student branch schedules lectures at regular intervals on subjects of current interest which have ranged from Telstar to Stereo Recording. As a part of its service to the student body, the IEEE has also sponsored short lectures on summer employment for the benefit of juniors and seniors.

Chairman: Andrew Poggio
Vice-Chairman: Samuel Feldman
Treasurer: Jerome Feder
Secretary: Edward Ott
Secretary: Stephen Dobrow
Faculty Advisors: Prof. J. Sherman
Prof. S. Epstein

Top Row, Left to Right: Rudolph Drechsler, Ed Wolvick, Barry Schectman, Richard Lodwig, Louis Braida, Joel Tendler. Second Row: Fred Rupp, Jerome Fleischman, Barry Bunin, Edward Ott, Emil Tobenfeld, Gerd Printz. Third Row: Herman Bilenko, Stephen Dobrow, Andrew Poggio, Bernard Nathan, Jerry Green, Roy Rosner. Front Row: Harry Pearle, James Chan, Stephen Rattien, Walter Pumo.





COOPER UNION ALUMNI ASSOCIATION

Three thousand members of the Alumni Association extend a warm welcome to the Class of 1963, and an invitation to visit our headquarters in the Hewitt Building and enjoy our attractive, comfortable air-conditioned lounge and other facilities.

We look forward to your participation in our program of activities, which helps the school while it benefits the alumni. This program includes interesting meetings which feature outstanding speakers on topics of current significance . . . an educational program consisting of our highly reputed Professional Engineers review course and seminars . . . a weekly sketch class and the Peter Cooper Gallery for exhibiting the work of our artist members . . . publication of the Alumni News and the special Founder's Day Yearbook Issue . . . class reunions and social gathering of alumni groups . . . the Annual Alumni Day with its class reunions and fun for the whole family at Green Camp in September . . . the Founder's Day Dinner and Dance in February, when we pay tribute to Peter Cooper and honor our distinguished fellow alumni by the presentation of citations and the Gano Dunn and Augustus St. Gaudens

medals for professional achievement . . . encouragement of undergraduates by financing extracurricular activities and awarding prizes for academic excellence. And, if you leave the New York City area after graduation, there are chapters of the Alumni Association organized in many cities.

The alumni of a college constitute one of its invaluable, unique resources. Cooper Union's alumni consider it a privilege to serve their own distinguished Alma Mater. Its activities which provide pleasure and stimulation for fellow alumni of both the School of Art and Architecture and the School of Engineering also foster and maintain the Alma Mater spirit among all alumni. The Cooper Union Alumni Association has as its major purpose the perpetuation of the ideals of our common benefactor, Peter Cooper, and the preservation of the legacy he bequeathed for us for future generations of students.

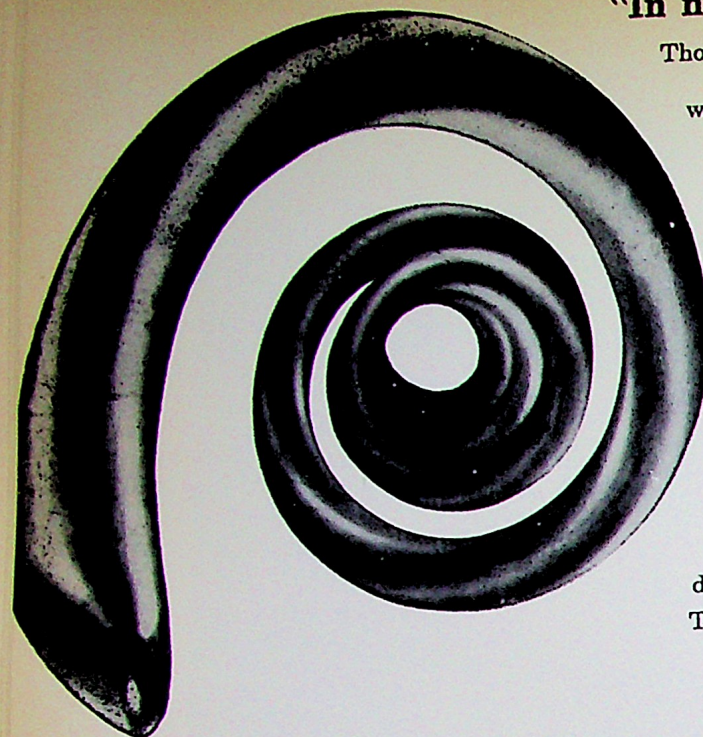
We look forward to the support and participation of our newest alumni, the Class of 1963. It is your association now, and you can add meaningful strength to it. Our effectiveness in helping The Cooper Union (and in benefiting ourselves) increases as our membership grows.



congratulations from

THE COOPER UNION SUPPLY STORE

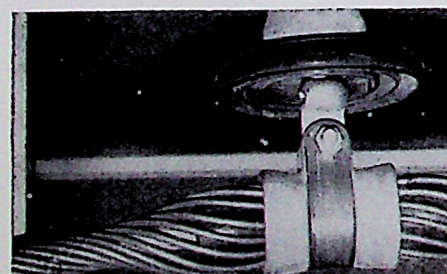
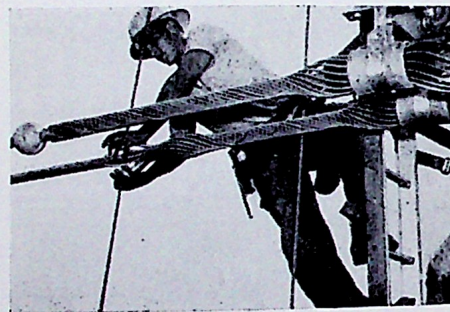
"In nature there are no finite discontinuities"



Thomas F. Peterson, EE, 1923, founder of Preformed Line Products Company, and its president until his death on August 24, 1962, was deeply inspired by the fundamental law of life that "in nature there are no finite discontinuities." (He recalled having first been impressed by this law as an undergraduate at Cooper Union.) It is a precept which was symbolized in his life by the infinite nature of the helix. The helix formed the basis of his numerous inventions. Moreover, it seemed to express his personal and business philosophy involving the "certainty of change and the desirability of slow rather than abrupt change."

Thomas Peterson saw his unique idea of reinforcing electrical conductor with "pre-formed" helical rods grow into a family of accessories which are used by the millions in armoring, splicing, dead-ending, supporting, spacing, suspending and vibration damping of electrical power and communications conductors as well as the guying of poles and towers.

The continuity of the helix and the original PREFORMED principle are seen in the hundreds of new products currently under development in the PREFORMED Research & Engineering Center. There need be no finite discontinuities of a sound basic idea . . . nor the remembrance of its inventor.



The PREFORMED principle can be demonstrated by assembling nine helical rods into a single sleeve, known as the PREFORMED "Candy Stick"... which will be mailed to you at your request.

You can look up to **Preformed** TRADEMARK

PREFORMED LINE PRODUCTS COMPANY

Cleveland 3, Ohio and Palo Alto, Calif.

Made in accordance with or for use under U. S. Patent Numbers 2,691,865; 2,761,273; 2,929,195; other patents pending.



**"Feel the
Magic
Touch"**

with

Used and Recommended by
Leading American Artists,
Teachers and Schools.

ROBERT SIMMONS BRUSHES

555 SIXTH AVENUE • NEW YORK 11, NEW YORK

Compliments
of

Fine Organics, Inc.

Manufacturers of organic chemicals to the plastic,
Pharmaceutical, cosmetic, and sanitizing industries.
Also manufacturer of maintenance chemicals.

COMPLIMENTS OF

**FARKAS & BARRON
CONSULTING ENGINEERS**

5 BEEKMAN STREET NEW YORK 38, N.Y.

SURVEYS FOR ---

Building Lines, Titles and Architects
Excavations and Foundations • Vaults
Billets and Grillages Set to Line and Grade
Real Estate Sub-division
Special Surveys for Court Use

TRANSITS and LEVELS for RENT
AND SALE

CITY SURVEYORS and CIVIL ENGINEERS

FRANK E. TOWLE & SON, inc.

ESTABLISHED 1860

258 BROADWAY

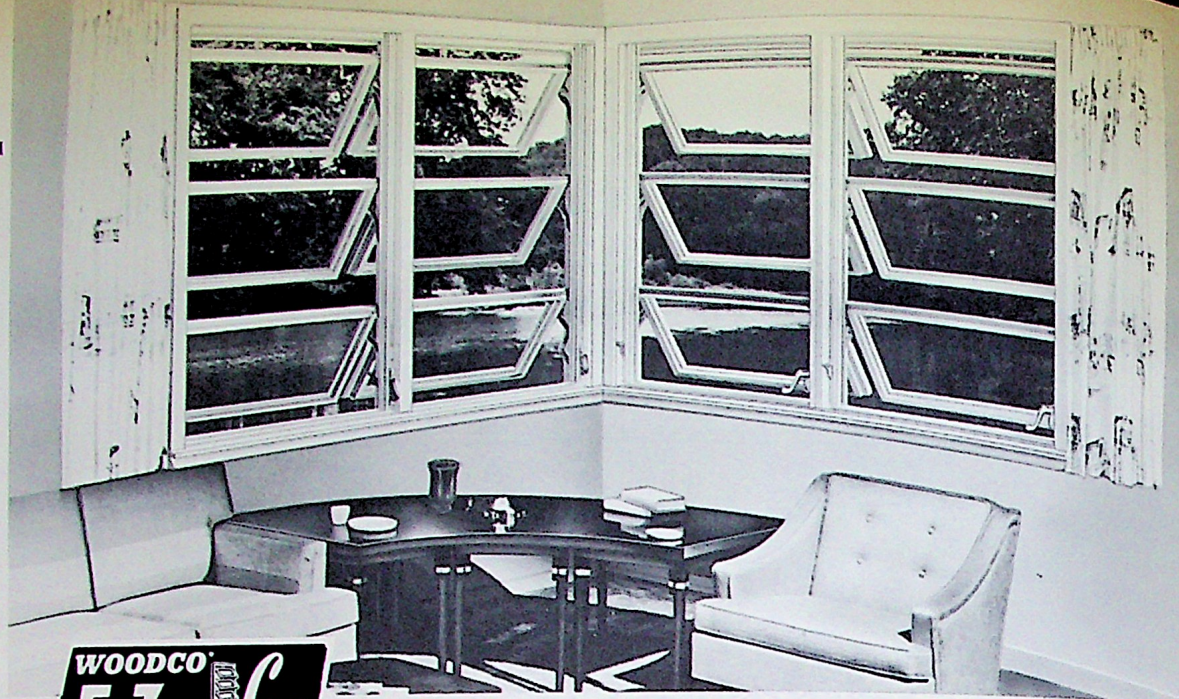
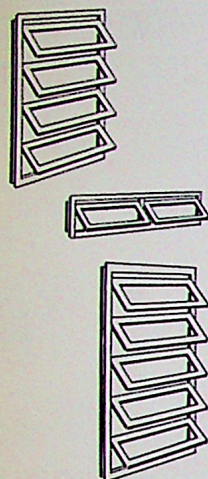
NEW YORK 7, N. Y.

Telephone COrtlandt 7-0630-0631

JULIUS HARWOOD, C.E., Pres.
ALFRED M. HARWOOD, M.C.E., Vice-Pres.

Woodco
Windows

for the Beautiful
point-of-view...®



WOODCO
E-Zee Loc
WOOD AWNING WINDOW

Easiest-operating awning window made!
Nothing to adjust—nothing to get out of adjustment!

For ease of use, dependable trouble-free service and ideal ventilation, the Woodco E-Zee Loc is the proved choice. With E-Zee Loc windows your home is more comfortable. Their modern design makes your home more attractive as well.

GEORGE M. KLEINKNECHT,
1918, Vice-Pres.

A Quality product from **WOODCO CORPORATION**
3323 PATERSON PLANK RD. | 1092 CATALYN ST. | 224 WALKER ST. | 600 FIELDS AVE.
NORTH BERGEN, N. J. | SCHENECTADY 3, N. Y. | LOWELL, MASS. | JACKSONVILLE 1, FLA.

McSORLEYS
OLD
ALE
HOUSE



"A Landmark of Old New York"
15 East 7th Street
Just East of Third Ave.
NEW YORK 3, N. Y.

Compliments of
PRECAST, INC.

31-01 UNION STREET
FLUSHING 54, N. Y.
Illinois 7-1515
INNIS O'ROURKE
President



UNITED
TRANSFORMER
CORPORATION

150 VARICK STREET
NEW YORK 13, N. Y.



FOR EVERY APPLICATION
IMMEDIATELY AVAILABLE—FROM STOCK

Over 1,000 items to cover virtually every electronic application. . . 400 Hermetic items, proved to MIL-T-27A, eliminate costly test delays. . . Highest reliability in the field. . . Immediately available from your local distributor. Write for catalog.

FILTERS LOW PASS HIGH PASS BAND PASS 60 to 12000 CYCLES. TELEMETERING 400 to 70000 CYCLES. TELEGRAPH 425 to 2975 CYCLES.		HIGH Q INDUCTORS VARIABLE STANDARD VARIABLE HERMETIC DECADE INDUCTOR LOW FREQ. TO 2500 HTS. PERMALLOY DUST TOROIDS HIGHEST Q, ACCURACY, STABILITY.	
TRANSISTOR AUDIO DO-T DI-T SMALLEST SIZE MINIATURE HERMETIC HIGHEST POWER	COMPACT WIDE RANGE OUNCER PLUG-IN ULTRA COMPACT	HERMETIC POWER COMPONENTS Military, Industrial PLATE TO 6 KV CT REACTORS TO 1.25A FILAMENT 400 CYCLE	PULSE MINIATURE, WOUND CORE, .05 TO 25 uSec. HIGHEST FIDELITY HIPERMALLOY LINEAR STANDARD BROADCAST AND HI-FI FAVORITES
TRANSISTOR POWER INVERTERS TO 550V .2A FROM BATTERY TRANSISTOR SUPPLY TO 50V 7.5A	LINE ADAPTORS VOLTAGE ADJUSTORS STEPDOWN ISOLATION UNITS TO 2500 W.	HERMETIC AUDIOS COMPLETE LINE OF AUDIO & POWER FOR HAM, MARINE, ETC. REPLACEMENT TYPES AUDIO, POWER, FILAMENT AND REACTORS TO 200 MA.	MAGNETIC AMPLIFIERS FOR SERVO MOTORS 2 TO 15 WATTS.
COMMERCIAL GRADE COMPLETE LINE OF AUDIO & POWER UNITS FOR COMMERCIAL EQUIPMENT.		UNITED TRANSFORMER CORPORATION 150 Varick Street, New York 13, N. Y. PACIFIC MFG. DIVISION 3630 EASTHAM DRIVE, CULVER CITY, CALIF. EXPORT DIVISION 13 EAST 40th STREET NEW YORK 16, N. Y. CABLES ARLAB	

And Special Units to
Your Specifications

The UTC ad illustrated shows a few items of the largest stock line in the industry today. But the major portion of UTC's production is for units specially made to customer's specifications. These units, transformers, electric wave filters, high Q coils, reactors, magnetic amplifiers, pulse transformers, etc., are highly essential in today's advanced sciences of electronics and avionics. UTC's constant designing and manufacturing diligence, backed by long years of experience, assures the highest degree of quality and reliability.

ENGINEERING—Over 30 years of engineering knowledge and experience go into UTC designs. They are fully laboratory proven before being released for production.

MATERIALS AND LIFE TESTING—The UTC Material and Chemical laboratories fully analyze and evaluate the materials employed in UTC transformers. Finished units, as well as insulation systems, are constantly undergoing life tests to provide guides for design and manufacturing processes which will provide greatest reliability. To provide statistical validity, over 10,000 life tests are run in a typical year.

QUALITY CONTROL—The Quality Control Division at UTC coordinates all statistics relating to materials and processes. All incoming materials are subjected to exhaustive testing, with individual lots of materials separately isolated and linked to their test reports so that subsequent variation in the finished production can be tied back to specific material received. Parts made within the UTC plant, such as drawn cans, stamped laminations, etc., are inspected and treated as though they were provided by an outside vendor.

PRODUCT TESTING—Each individual transformer or filter produced by UTC is tested for all of its performance requirements three times during successive stages of manufacture. In addition to this, a substantial sampling of each day's production is put through extensive humidity, vibration, thermal shock, and overload testing to assure product performance and reliability.

THE END RESULT—UTC's level of quality and reliability is the highest in the industry...twenty times better than the industry average, based on available information.

B. STRONGIN, INC.

Manufacturing
Stationers and Printers
Office and school supplies —
social stationary
746-750 Broadway
Corner Astor Place
New York 3, N.Y.

Plumbing, Electrical
Janitor's & Builder's Supplies
Cutlery • Power Tools
Mazda Lamps • Radios
Television • Refrigerators

Kaminstein Bros.

HARDWARE — PAINTS

29 Third Avenue
New York 3, N. Y.
SPring 7-7170-1-2-3

Coscia's "21" Inc.

Restaurant and Luncheonette

Air Conditioned

21-23 East 7th Street
New York 3, N. Y.

Est. 1930

AL 4-1956

BOWLMOR RECREATION

44 A.B.C. Fully Automatic Lanes

The Home of Champions

110 University Place

Bet. 12th & 13th Sts.

NEW YORK 3, N.Y.

CZAS PUBLISHING CO., Inc.

Printing
of
Every
Description

- Books
- School Newspapers
- Weeklies
- Magazines
- Journals
- Commercial Printing

142 Grand Street
Brooklyn 11, N.Y., Tel EVergreen 8-9320

Compliments of

CABLE



We Salute You!

Congratulations and the best of luck! We at Lorstan are proud of the part we have had in helping to make your classbook a permanent reminder of your school years, recording with photographs one of the happiest and most exciting times of your life! We hope that, just as you have chosen us as your class photographer, you will continue to think of Lorstan Studios when you want photographs to help you remember other momentous days to come! When you choose Lorstan portraits, you are sure of the finest craftsmanship at the most moderate prices!

LORSTAN STUDIOS

Foremost School Photographers in the East

Congratulations to **THE CABLE**

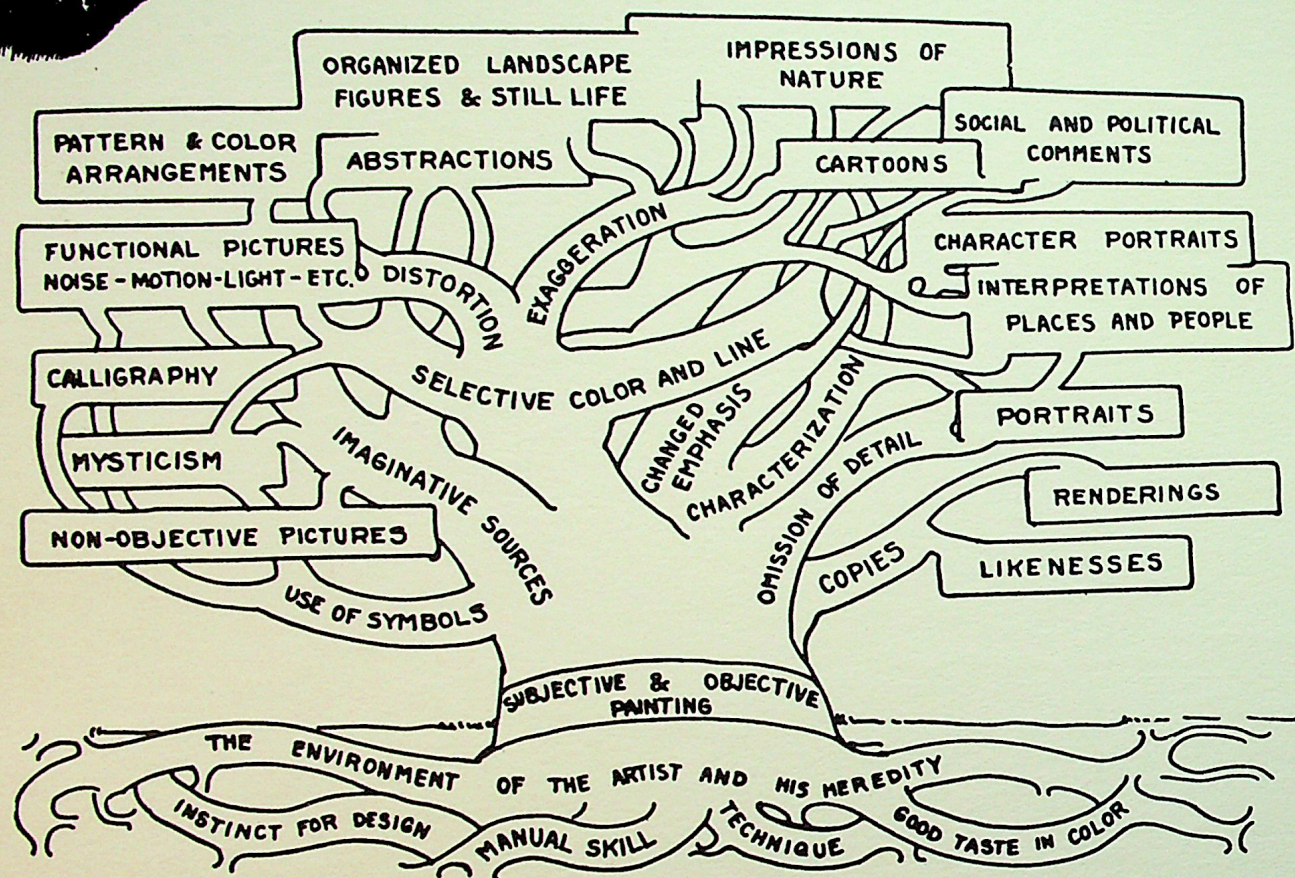
For Your Most Exacting Yearbook Requirements...

Bradbury, Sayles, O'Neill,
Hurley & Thomson, Inc.

Sales and Executive Offices:

Chrysler Building
405 Lexington Avenue
New York 17, N. Y.

Phone—MUrray Hill 7-8862



16 Minut.				I. GRAD.				17. Minut.			
S.	Log. Sin.	L. Col.	Log. Tang.	Log. Cot.	Log. Sin.	L. Col.	Log. Tang.	Log. Cot.	"		
	8.	9. 9998	8.	11.	8.	9. 9998	8.	11.			
0	344 5043 325	938 624	344 6104 701	655 3895 299	350 1805 283	910 507	350 2894 776	649 7105 224	60		
1	344 5995 466	938 158	344 7057 308	655 2942 692	350 2745 055	910 036	350 3835 019	649 6164 981	59		
2	344 6947 398	937 693	344 8009 705	655 1990 295	350 3684 625	909 564	350 4775 061	649 5224 939	58		
3	344 7899 121	937 227	344 8961 894	655 1038 106	350 4623 991	909 092	350 5714 899	649 4285 101	57		
4	344 8850 636	936 761	344 9913 375	655 0086 125	350 5563 133	908 620	350 6654 533	649 3345 467	56		
5	344 9801 942	936 295	345 0865 647	654 9134 353	350 6502 112	908 148	350 7593 964	649 2406 036	55		
6	345 0753 039	935 829	345 1817 210	654 8182 790	350 7440 868	907 676	350 8533 192	649 1466 808	54		
7	345 1703 928	935 362	345 2768 566	654 7231 434	350 8379 422	907 204	350 9472 218	649 0527 782	53		
8	345 2654 609	934 896	345 3719 713	654 6280 287	350 9317 772	906 731	351 0411 041	648 9588 959	52		
9	345 3605 082	934 430	345 4670 652	654 5329 348	351 0255 920	906 259	351 1349 661	648 8650 339	51		
10	345 4555 347	933 963	345 5621 384	654 4378 616	351 1193 864	905 786	351 2288 078	648 7711 922	50		
11	345 5505 404	933 496	345 6571 908	654 3428 092	351 2131 607	905 313	351 3226 294	648 6773 706	49		
12	345 6455 252	933 030	345 7522 222	654 2477 778	351 3069 146	904 840	351 4164 306	648 5835 694	48		
13	345 7404 893	932 563	345 8472 330	654 1527 670	351 4006 484	904 367	351 5102 117	648 4897 883	47		
14	345 8354 326	932 096	345 9422 230	654 0577 770	351 4943 618	903 894	351 6039 724	648 3960 276	46		
15	345 9303 553	931 629	346 0371 924	653 9628 076	351 5880 551	903 421	351 6977 130	648 3022 870	45		
16	346 0252 570	931 162	346 1321 408	653 8678 592	351 6817 280	902 948	351 7914 332	648 2085 668	44		
17	346 1201 381	930 694	346 2270 687	653 7729 313	351 7753 810	902 475	351 8851 335	648 1148 665	43		
18	346 2149 984	930 227	346 3219 757	653 6780 243	351 8690 136	902 001	351 9788 135	648 0211 865	42		
19	346 3098 381	929 760	346 4168 621	653 5831 379	351 9626 262	901 528	352 0724 734	647 9275 266	41		
20	346 4046 569	929 292	346 5117 277	653 4882 723	352 0562 182	901 054	352 1661 128	647 8338 872	40		
21	346 4994 550	928 824	346 6065 726	653 3934 274	352 1497 903	900 580	352 2597 323	647 7402 677	39		
22	346 5942 325	928 357	346 7013 968	653 2986 032	352 2433 423	900 106	352 3533 317	647 6466 683	38		
23	346 6889 893	927 889	346 7962 004	653 2037 996	352 3368 740	899 632	352 4469 108	647 5530 892	37		
24	346 7837 255	927 421	346 8909 834	653 1090 166	352 4303 855	899 158	352 5404 697	647 4595 303	36		
25	346 8784 409	926 953	346 9857 456	653 0142 544	352 4238 770	898 684	352 6340 086	647 3659 914	35		
26	346 9731 357	926 485	347 0804 872	652 9195 128	352 6173 483	898 210	352 7275 273	647 2724 727	34		
27	347 0678 098	926 016	347 1752 082	652 8247 918	352 7107 996	897 736	352 8210 260	647 1789 740	33		
28	347 1624 633	925 548	347 2699 085	652 7300 915	352 8042 307	897 261	352 9145 046	647 0854 954	32		
29	347 2570 961	925 080	347 3645 881	652 6354 119	352 8976 416	896 787	353 0079 629	646 9920 371	31		
30	347 3517 084	924 611	347 4592 473	652 5407 527	352 9910 325	896 312	353 1014 013	646 8985 987	30		
31	347 4463 000	924 142	347 5538 858	652 4461 142	353 0844 032	895 837	353 1948 195	646 8051 805	29		
32	347 5408 710	923 674	347 6485 036	652 3514 964	353 1777 540	895 362	353 2882 178	646 7117 822	28		
33	347 6354 214	923 205	347 7431 009	652 2568 991	353 2710 848	894 887	353 3815 961	646 6184 039	27		
34	347 7299 512	922 736	347 8376 776	652 1623 224	353 3643 953	894 412	353 4749 541	646 5250 459	26		
35	347 8244 605	922 267	347 9322 338	652 0677 662	353 4576 856	893 937	353 5682 919	646 4317 081	25		
36	347 9189 491	921 798	348 0267 693	651 9732 307	353 5509 563	893 461	353 6616 102	646 3383 898	24		
37	348 0134 172	921 328	348 1212 844	651 8787 156	353 6442 069	892 986	353 7549 083	646 2450 917	23		
38	348 1078 648	920 859	348 2157 789	651 7842 211	353 7374 372	892 510	353 8481 862	646 1518 138	22		
39	348 2022 918	920 390	348 3102 528	651 6897 472	353 8306 475	892 035	353 9414 440	646 0585 560	21		
40	348 2966 982	919 920	348 4047 062	651 5952 938	353 9238 377	891 559	354 0346 818	645 9653 182	20		
41	348 3910 847	919 450	348 4991 391	651 5008 609	354 0170 082	891 083	354 1278 999	645 8721 001	19		
42	348 4854 496	918 981	348 5935 515	651 4064 485	354 1101 588	890 607	354 2210 981	645 7789 019	18		
43	348 5797 945	918 511	348 6879 434	651 3120 566	354 2032 892	890 131	354 3142 761	645 6857 239	17		
44	348 6741 189	918 041	348 7823 148	651 2176 852	354 2963 996	889 655	354 4074 341	645 5925 659	16		
45	348 7684 227	917 571	348 8766 656	651 1233 344	354 3894 901	889 179	354 5005 722	645 4994 278	15		
46	348 8627 061	917 101	348 9709 960	651 0290 040	354 4825 606	888 702	354 5936 904	645 4063 096	14		
47	348 9569 691	916 630	349 0653 061	650 9346 939	354 5756 111	888 226	354 6867 885	645 3132 115	13		
48	349 0512 116	916 160	349 1595 956	650 8404 044	354 6686 417	887 749	354 7798 668	645 2201 332	12		
49	349 1454 335	915 690	349 2538 645	650 7461 355	354 7616 523	887 273	354 8729 250	645 1270 750	11		
50	349 2396 350	915 219	349 3481 131	650 6518 869	354 8546 429	886 796	354 9659 633	645 0340 367	10		
51	349 3338 163	914 748	349 4423 415	650 5576 585	354 9476 139	886 319	355 0589 820	644 9410 180	9		
52	349 4279 770	914 277	349 5365 493	650 4634 507	355 0405 649	885 842	355 1519 807	644 8480 193	8		
53	349 5221 174	913 806	349 6307 368	650 3692 632	355 1334 960	885 365	355 2449 595	644 7550 405	7		
54	349 6162 373	913 335	349 7249 038	650 2750 962	355 2264 070	884 888	355 3379 182	644 6620 318	6		
55	349 7103 368	912 864	349 8190 504	650 1809 496	355 3192 983	884 411	355 4308 572	644 5691 428	5		
56	349 8044 158	912 393	349 9131 765	650 0868 235	355 4121 696	883 933	355 5237 763	644 4762 237	4		
57	349 8984 745	911 922	350 0072 823	649 9927 177	355 5050 212	883 456	355 6166 756	644 3833 244	3		
58	349 9925 128	911 450	350 1013 678	649 8936 322	355 5978 528	882 971	355 7095 550	644 2904 450	2		
59	350 0865 309	910 979	350 1954 330	649 8045 670	355 6906 647	882 501	355 8024 146	644 1975 854	1		
60	350 1805 283	910 507	350 2894 776	649 7105 224	355 7834 565	882 023	355 8952 542	644 1047 458	0		
"	Log. Cot.	L. Sin.	Log. Cot.	Log. Tang.	Log. Cot.	L. Sin.	Log. Cot.	Log. Tang.	S		
43. Minut.				88. GRAD.				42. Minut.			

